



State of Vermont

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation
Drinking Water and Groundwater Protection Division
1 National Life Drive, Main 2
Montpelier, VT 05620-3521
(802) 585-4911

January 12, 2016

Ed Pcolar
Agri-Mark, Inc. (dba Cabot Creamery)
193 Home Farm Way
Waitsfield, VT 05673

RE: Final Indirect Discharge Permit ID-9-0043

Dear Mr. Pcolar,

The final indirect discharge permit for Agri-Mark, Inc. dba Cabot Creamery has been signed by the Director of the Drinking Water and Groundwater Protection Division for the Commissioner of the Department of Environmental Conservation. As you know, we received numerous comments on the draft indirect discharge permit during the public comment periods and at the August 31, 2015 public hearing. These comments and the Department's responses are contained in a December 8, 2015 Response Summary. As a result of public input, significant changes have been made to the draft permit which was placed on public notice.

The final indirect discharge permit, response summary and other documents associated with this decision can be viewed at the following link:

<http://www.anr.state.vt.us/dec/dwgwp/noticesfinaldecision.htm>

Please read the entire permit carefully and become familiar with all of its terms and conditions and feel free to call me at (802) 505-0972 if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "B. Harrington".

Bryan Harrington
Indirect Discharge Permit Section

CC: Jim Bowes, The Johnson Company
Warren Coleman, Esq.
Interested Party Mailing List
IDP Mailing List
ID-9-0043 Permit File



**AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1 NATIONAL LIFE DRIVE, MAIN 2
MONTPELIER, VT 05620-3521**

INDIRECT DISCHARGE PERMIT

File Code: WIN-9-0043

Permit No.: ID-9-0043
PIN: BR95-0213

In compliance with the provisions of 10 V.S.A. §1263, and in accordance with the conditions established herein, the permittee:

Agri-Mark, Inc. (dba. Cabot Creamery)
193 Home Farm Way
Waitsfield, Vermont 05673

is authorized to indirectly discharge two types of non-sewage waste, polished permeate and dairy processing wastewater, from the permittee's dairy manufacturing facility located in Cabot, Vermont to groundwater and indirectly to numerous receiving streams.

This indirect discharge permit authorizes particular methods of indirect discharge for each non-sewage waste. Part I of this permit authorizes the discharge of polished permeate via a sprayfield onto 14.23 acres owned by the permittee to groundwater and indirectly into the Winooski River. Part II of this permit authorizes the land application of dairy processing wastewater to the authorized fields listed in Attachment A-2, which discharge to groundwater and indirectly into the receiving streams identified in Attachment A-1. Part II also authorizes disposal of dairy processing waste via the approved manure pits listed in Attachment B, and via application to hayfields pursuant to the specifications included in Attachment C. Part III of this permit contains general conditions and requirements which apply to the indirect discharge of both polished permeate and dairy processing wastewater.

PART I: INDIRECT DISCHARGE OF POLISHED PERMEATE

SECTION A - "ADMINISTRATION"

A1. Authorization for Indirect Discharge:

Expiration Date	June 30, 2020
Type of Waste	Polished Permeate
Disposal System	Polished Permeate Sprayfield (14.23 acres, 8.29 wetted acres)
Design Flow	35,000 gpd annual average
Town	Cabot
Receiving Stream	Winooski River
Drainage Area	13.99 square miles
Low Median Monthly Flow (LMMF)	6.1 cfs (3,942,259 gpd)
Spray Disposal Capacity	455,217 gallons/7 days 2" per 7-day period (April through November only)
Dilution Ratio (stream flow to effluent, based on 455,217 gallons/7 days)	60 to 1 at LMMF

This Indirect Discharge Permit authorizes, subject to the conditions established herein, the discharge of polished permeate via a sprayfield onto 14.23 acres owned by the permittee to groundwater and indirectly into the Winooski River. The conditions of this approval are detailed below in the System Construction, System Operation, and Monitoring sections of Part I of this permit.

A2. Schedule Summary:

The following is a summary of some of the key compliance dates. It is provided as a courtesy only and shall not be construed to create additional or independent conditions of this permit. Any conflicts between this summary and other provisions of this permit shall be resolved by applying the other provisions without reference to this summary.

<u>Condition # & Description</u>	<u>Schedule</u>
D5(A). Have a Vermont Registered Professional Engineer complete an inspection of permeate collection and disposal system	Annually in April
D5(B). Submit Annual Inspection Report	Annually by July 1st
D5(C). Submit schedule for implementing engineer's recommendations	Annually by July 1st
E2. Collect and analyze polished permeate samples discharged to ponds	Monthly, June and September
E3. Record depth of polished permeate in storage ponds and report volume	Weekly
E4(A). Collect and analyze polished permeate samples sprayed	Monthly, April - November
E4(B). Record volume of polished permeate sprayed	Daily, April - November
E5(A). Collect and analyze groundwater samples for sprayfield	Monthly, May, August and September
E5(B). Measure and record the depths to groundwater in monitoring wells for sprayfield	Within 24 hours prior to spraying
E6(A). Collect and analyze groundwater monitoring samples around ponds	Upon request
E6(B). Measure and record the depths to groundwater in monitoring wells around ponds	Upon request

A2. Schedule Summary (continued):

<u>Condition # & Description</u>	<u>Schedule</u>
E7(A). Submit revised QA/QC Plan for Winooski River sampling	By June 30, 2016
E7(B). Collect and analyze Winooski River samples	Monthly, August and September
E7(C). Perform biological site assessment of Winooski River	By August 1, 2016
E8. Submit water quality evaluation of polished permeate disposal	By March 31, 2020
E9. Submit all monitoring results and measurements	By the 15th day of the following month or second month following sampling

A3. Effective Date:

This permit becomes effective on the date of signing.

A4. Indirect Discharge Rules and Other Applicable Standards:

This indirect discharge was originally reviewed and qualified for an Indirect Discharge Permit in accordance with the Site Specific Compliance Test (Section 14-B-201) in the Indirect Discharge Rules, effective January 29, 2000, and the Ground Water Protection Rule and Strategy, effective September 29, 1988 [Section 12-503 (3)(b)(v)].

For the purposes of this permit renewal, the permittee applied under Section 14-406(d) of the Indirect Discharge Rules, effective April 30, 2003. This indirect discharge is in compliance with the Groundwater Protection Rule and Strategy, effective February 14, 2005, and presumed to be in compliance with the Vermont Water Quality Standards, effective October 30, 2014.

A5. Modifications and Additions to System:

Before modifications or adding to the treatment and/or spray disposal system, the permittee must submit plans and an application for an amendment to this permit to the Secretary for review and approval. These plans and application must be approved and permitted by the Secretary before any of the modifications or additions are to be made.

SECTION B "DESCRIPTION OF INDIRECT DISCHARGE"

B1. Location of Indirect Discharge:

The indirect discharge from the polished permeate sprayfield is located on the Winooski River in the town of Cabot, Vermont, with a drainage area of 13.99 square miles at the point of compliance. The indirect discharge can be located on the USGS, Cabot, Vermont 7.5' quadrangle map at Latitude N 44° 24' and Longitude W 72° 19'.

B2. Nature of Indirect Discharge:

Polished permeate is a non-sewage, non-pathogenic wastewater which is generated during the manufacturing of cheese products. Polished permeate is the water fraction remaining after the whey is concentrated to approximately 30% solids by two reverse osmosis (RO) processes. For example, 100 gallons of whey at 6.2% solids would result in 21 gallons of whey concentrate at 30% solids and 79 gallons of permeate after the first RO process. The second RO process further concentrates the 79 gallons of permeate down to 71 gallons of permeate and 8 gallons of whey concentrate, resulting in 29 gallons of whey and 71 gallons of polished permeate. Cottage cheese rinse water is also processed through RO equipment. For every 100 gallons of rinse water processed, about 10 gallons of concentrated solids and 90 gallons of polished permeate is generated. The whey concentrate is shipped to the Agri-Mark Middlebury facility for other uses.

From the Cabot Creamery facility, polished permeate is pumped to three storage ponds located on the permittee's property. The ponds have a combined storage capacity of 6.1 million gallons. The polished permeate is sprayed April through November and stored in the ponds December through March. The total wetted area for the sprayfield is 8.29 acres with a design maximum loading rate of 2 inches per 7 day period (equivalent to 455,217 gallons per 7-day period). The polished permeate sprayfield therefore has an average approved spray capacity of 65,031 gpd April through November.

The annual average daily flow of polished permeate generated at the facility is approximately 28,700 gpd, for a total annual volume of about 7,000,000 gallons. The average annual precipitation adds an additional 1,040,250 gallons, taking into account evaporation, for an annual total to be discharged of 8,040,250 gallons. This total sprayed from April through November (244 days) requires a daily average spray capacity of nearly 33,000 gpd. Sprayed polished permeate discharges to groundwater and indirectly to the Winooski River.

SECTION C "SYSTEM CONSTRUCTION"

See the Fact Sheet dated July, 2005 for a list of the approved plans for the sprayfield system.

SECTION D "SYSTEM OPERATION"

D1. General:

The polished permeate sprayfield system shall be operated at all times in a manner that will (1) not result in the direct discharge of polished permeate into the waters of the State; and (2) not result in a violation of the Vermont Water Quality Standards, effective October 30, 2014, or the Groundwater Protection Rule and Strategy, effective February 14, 2005.

D2. Limits on Spray Disposal:

This permit authorizes the discharge of polished permeate which is generated at the facility at an annual average rate up of to 35,000 gallons per day. The polished permeate sprayfield shall be operated at all times in accordance with the following limits:

- A. No spraying shall be conducted when the groundwater table is closer than one (1) foot to the ground surface in the sprayfield as determined from the groundwater level in the field monitoring wells.
- B. No spraying shall be conducted if there is any surface runoff occurring within the sprayfield.
- C. The total polished permeate applied to the sprayfield shall not exceed 2.0 inches on the wetted area of the field in any seven (7) day period (equivalent to 455,217 gallons per 7-day period).
- D. The maximum hourly rate of polished permeate application shall not exceed 0.25 inches per hour.
- E. There shall be a minimum of a 12-hour rest period between spray applications for any spray line.
- F. Spraying of polished permeate shall only occur from April 1st through November 30th.

D3. Operator Certification:

See Condition K7.

D4. Reporting of Failures:

The permittee shall immediately report any failure of the polished permeate storage and spray disposal system to the Secretary first by telephone within 24 hours of the failure (by the next working day) and then in writing within 5 days of the failure. The written notice shall include a discussion of the actions taken or to be taken to correct the failure.

D5. Annual Inspection, Report and Implementation Schedule:

A. Annual Inspection:

Annually during the month of April, the permittee shall engage a professional engineer registered in the State of Vermont to make a thorough inspection, evaluation, and report of the complete collection, treatment and sprayfield system. The engineer's inspection shall include, but not be limited to the following:

1. verifying the proper operation of all pumps, alarms and controls;
2. walking around each storage pond and verifying the integrity of each berm, noting any signs of leakage from any of the ponds;
3. walking each spray lateral in the sprayfield and checking for the proper operation of the spray disposal system, noting any repairs needed and any areas of erosion or concentrated surface runoff;
4. checking the calibration of the effluent flow meters; and
5. noting any necessary repairs, or maintenance that needs to be performed.

B. Annual Inspection Report:

Annually, by July 1st, the permittee shall have a professional engineer submit an annual inspection report including the following items:

1. a complete discussion of the items inspected and the results of the inspection; and
2. a discussion of the recommended repairs and maintenance required.

C. Implementation Schedule:

Annually, by July 1st, the permittee shall notify the Secretary in writing stating how the engineer's recommendations are to be implemented, including a schedule for the required repairs and maintenance.

D6. System Operation and Maintenance:

The polished permeate collection, storage, treatment, and spray disposal system shall be operated and maintained at all times in a manner satisfactory to the Secretary and not to cause health hazards, contamination of drinking water supplies, groundwater and/or surface water.

D7. Discharge Restrictions:

The permittee shall not allow any person to discharge or cause to be discharged anything other than polished permeate to the storage ponds and sprayfield.

D8. Storage Ponds:

The permittee shall maintain a minimum of two (2) feet of freeboard in each storage pond. The permittee shall immediately report any violation of the required two feet of freeboard to the Secretary.

SECTION E "MONITORING"

E1. Quality Control/Quality Assurance Plan (QA/QC Plan):

The permittee shall perform sampling and analysis for the disposal of polished permeate in accordance with the QA/QC Plan dated April 2015, as revised and approved, and the conditions of this permit.

E2. Polished Permeate Monitoring:

The polished permeate discharged to the storage ponds shall be sampled monthly and analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>
Flow	gpd	daily total	Daily
Total Suspended Solids (TSS)	mg/L	grab	June and September
Chloride (Cl-)	mg/L	grab	June and September
Total Phosphorus (TP)	mg/L	grab	June and September
Nitrate-Nitrite Nitrogen	mg/L	grab	June and September
pH	S.U.	grab	June and September

Samples shall be taken before the polished permeate is discharged to the storage ponds.

E3. Permeate Storage Pond Volume:

The water level in each storage pond shall be measured and recorded once per week and the volume of each pond determined.

E4. Polished Permeate Spray Monitoring:

A. Effluent Quality:

Beginning in April, the polished permeate sprayed shall be sampled and analyzed during spraying operations, as follows:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>
Total Suspended Solids (TSS)	mg/L	grab	Monthly, April - November
Chloride (Cl-)	mg/L	grab	Monthly, April - November
Total Phosphorus (TP)	mg/L	grab	Monthly, April - November
Total Dissolved Phosphorus (TDP)	mg/L	grab	Monthly, April - November
Nitrate-Nitrite Nitrogen	mg/L	grab	Monthly, April - November
pH	S.U.	grab	Monthly, April - November

 Samples shall be taken from sampling taps installed in the pipe from the pond being utilized to the sprayfield.

B. Volume of Polished Permeate:

The volume of polished permeate sprayed and the period of spray for each spray line shall be measured and recorded daily. The maximum hourly rate of spray shall also be measured and recorded daily.

E5. Groundwater Monitoring - Sprayfield:

A. Chemical:

The groundwater in all the monitoring wells upgradient and downgradient of the sprayfield shall be sampled monthly and analyzed in accordance with the April 2015 QA/QC Plan, as revised, and the following:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>
Total Dissolved Solids	mg/L	grab	May, August and September
Chloride (Cl-)	mg/L	grab	May, August and September
Total Dissolved Phosphorus (TDP)	mg/L	grab	May, August and September
pH	S.U.	grab	May, August and September
Nitrite-Nitrate Nitrogen	mg/L	grab	May, August and September
Depth to groundwater (below ground surface)	inches	instant.	At time of sampling

 Because of the changing water table conditions the samples from the groundwater monitoring wells might not be collected on the same day or in the same week. If a monitoring well has water at any time during the sampling months then a sample is required to be collected and analyzed.

B. Groundwater Levels:

The depth to groundwater (below ground surface) shall be measured and recorded at least weekly in all the in-field observation wells and the three downgradient monitoring wells. If the groundwater table is within three (3) feet of ground surface in any of the observation wells, groundwater levels shall be measured and recorded each day that spraying occurs, prior to spraying. No spraying shall be conducted when the groundwater table is closer than one (1) foot to the ground surface in the sprayfield as based on these measurements. Dry wells shall be recorded as "no water to depth of well".

E6. Groundwater Monitoring - Storage Ponds:

A. Chemical:

The April 2015 QA/QC Plan includes the location of one groundwater monitoring well upgradient, one groundwater monitoring well in each berm separating the three storage ponds, and three groundwater monitoring wells downgradient of the polished permeate storage ponds. Upon request of the Secretary, the groundwater in the monitoring wells shall be sampled and analyzed for the parameters indicated in Condition E4(A) above.

Because of the changing water table conditions the samples from the groundwater monitoring wells might not be collected on the same day or in the same week. If a monitoring well has water at any time during the period a sample is requested, then a sample is required to be collected and analyzed.

B. Groundwater Levels:

Upon request of the Secretary, the depth to groundwater (below ground surface) shall be measured and recorded in all the monitoring wells indicated in Condition E6(A) above. Dry wells shall be recorded as "no water to depth of well".

E7. Receiving Stream Monitoring:

A. Sampling Plan:

By June 30, 2016, the permittee shall submit a revised QA/QC Plan to the Secretary for review and approval for the collection and analysis of water quality samples from the Winooski River upstream and downstream of the indirect discharge from the sprayfield and Field 40A in accordance with the requirements of Condition E7(B).

The revised QA/QC Plan shall include provisions for a biological site assessment of the Winooski River upstream and downstream of the indirect discharge from the sprayfield and Field 40A by qualified aquatic biologist. The revised QA/QC Plan shall also include a biomonitoring plan for sampling the aquatic biota of the Winooski River if it determined from the biological evaluation that biomonitoring is warranted. The biological sampling plan shall be in accordance with the requirements of Subchapter 22 of the Indirect Discharge Rules, effective April 30, 2003.

E7. Receiving Stream Monitoring (continued):

B. Chemical:

The Winooski River shall be sampled monthly at locations upstream and downstream of the indirect discharge from the sprayfield and Field 40A in accordance with an approved QA/QC Plan and the following:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>
Total Phosphorus (TP)	mg/L	grab	August and September
Total Dissolved Phosphorus (TDP)	mg/L	grab	August and September
Chloride (Cl-)	mg/L	grab	August and September
Sodium (Na+)	mg/L	grab	August and September
Total Kjeldahl Nitrogen (TKN)	mg/L	grab	August and September
Ammonia Nitrogen (NH ₃)	mg/L	grab	August and September
Nitrite-Nitrate Nitrogen	mg/L	grab	August and September
pH	S.U.	grab	August and September
Temperature	Degrees	grab	August and September
Total Alkalinity as CaCO ₃	mg/L	grab	August and September
Dissolved Oxygen	mg/L	grab	August and September
Turbidity	N.T.U.	grab	August and September
Conductivity	S/m	grab	August and September

The permittee shall not sample the receiving stream within 24 hours of any storm event affecting the stream's watershed.

E7. Receiving Stream Monitoring (continued):

C. Biological:

By August 1, 2016, the permittee shall have a qualified aquatic biologist conduct a biological site assessment of the Winooski River upstream and downstream of the indirect discharge from the sprayfield and Field 40A. If the Secretary determines that biological sampling is warranted, the permittee shall have biological sampling performed in August - September 2016 in accordance with an approved QA/QC Plan. The biological results shall be submitted by March 31, 2017.

E8. Water Quality Evaluation:

By March 31, 2020, the permittee shall have a qualified water quality specialist submit a water quality evaluation to the Secretary of all the polished permeate, groundwater and surface water quality data collected during the 2015 – 2019 permit period. Biological site assessment and/or biomonitoring results shall also be included. The report shall summarize what, if any, short or long term impacts there have been on groundwater or surface water quality. The report shall also include a summary of the volume of polished permeate sprayed prior to groundwater and/or surface water sampling.

The water quality evaluation shall indicate whether the discharge of polished permeate is in compliance with the Groundwater Protection Rule and Strategy and the Vermont Water Quality Standards.

E9. Submittal of Monitoring Results:

The daily volumes of polished permeate discharged to the storage ponds, the permeate storage pond levels and volumes, the daily volume of polished permeate sprayed, and the groundwater depth measurements required by Conditions E2 – E6 above shall be submitted to the Secretary by the 15th day of the month following the date of measurement.

The results of all the polished permeate, polished permeate spray, groundwater and surface water sampling required by Conditions E2 – E7 above shall be submitted to the Secretary by the 15th day of the second month following the date of sampling.

PART II: INDIRECT DISCHARGE OF DAIRY PROCESSING WASTEWATER

SECTION F - "ADMINISTRATION"

F1. Authorization for Indirect Discharge:

Expiration Date	June 30, 2020
Type of Waste	Dairy Processing Wastewater
Disposal System	Diffuse land application
Design Flow	150,000 gallons per day
Towns	Albany, Barnet, Barton, Brookfield, Brownington, Cabot, Calais, Craftsbury, Danville, E. Montpelier, Elmore, Glover, Greensboro, Hardwick, Irasburg, Lyndon, Marshfield, Morristown, Peacham, Plainfield, Randolph, St. Johnsbury, Sheffield, Stannard, Stowe, Walden, Wheelock and Wolcott
Drainage Basins	Black, Lamoille, Passumpsic, Stevens, White and Winooski
Receiving Streams	The receiving streams at the point of compliance for the disposal fields are summarized in Attachment A-1.

This Indirect Discharge Permit authorizes, subject to the conditions established herein, the land application of dairy processing wastewater to the authorized fields listed in Attachment A-2, which discharge to groundwater and indirectly into the receiving streams identified in Attachment A-1. It also authorizes disposal of dairy processing waste via the approved manure pits listed in Attachment B, and via application to hayfields pursuant to the specifications included in Attachment C. The conditions of this approval are detailed below in the System Operation and Monitoring sections of Part II of this permit.

F2. Schedule Summary:

The following is a summary of some of the key compliance dates. It is provided as a courtesy only and shall not be construed to create additional or independent conditions of this permit. Any conflicts between this summary and other provisions of this permit shall be resolved by applying the other provisions without reference to this summary.

<u>Condition # & Description</u>	<u>Schedule</u>
F5(C). Submit report for changes in fields and pits	Annually by July 1st
I4(A). Have a Vermont Registered Professional Engineer complete an inspection of collection and disposal system	Annually in May
I4(B). Submit Annual Inspection Report	Annually by July 1st
I4(C). Submit schedule for implementing engineer's recommendations	Annually by July 1st
I9. Complete Z-field forms, submit maps	When using a new field
I11. Maintain daily journal or checklists	Daily
I12. Submit reports of all land application activities	By the 15th day of the following month
I13. Submit Annual Report	Annually by Nov. 30th
I15. Submit Alternatives Analysis	By December 31, 2016
I16. Submit Application for Permit Amendment	As specified
J2. Submit revised QA/QC Plan	By June 30, 2016
J3(A) Collect and analyze washwater samples	Monthly, February, May, August and September
J3(B) Record volume of washwater produced and stored	Daily

F2. Schedule Summary (continued):

<u>Condition # & Description</u>	<u>Schedule</u>
J4(A) Collect and analyze groundwater samples	Monthly, May, August, and September
J4(B) Measure and record the depths to groundwater in observation wells	Prior to land application on well-verified fields.
J5(A) Collect and analyze samples from receiving streams	Monthly, August and September
J5(B) Perform biological assessment/monitoring	Upon request
J6. Submit all monitoring results and measurements	By the 15th day of the following month or second month following sampling
J7. Perform and submit soil testing results; Submit field evaluation	By October 31, 2016; By December 31, 2016
J8. Submit water quality evaluation of land application	By March 31, 2020
J9. Perform toxic scan analyses of dairy processing wastewater	December 2016, June 2018 and December 2019

F3. Effective Date:

This permit becomes effective on the date of signing.

F4. Indirect Discharge Rules and Other Applicable Standards:

This indirect discharge was reviewed and qualified for an Indirect Discharge permit in accordance with Section 14-1902(c) of the Indirect Discharge Rules, effective April 30, 2003, the Vermont Guidelines for Land Application of Dairy Processing Wastes dated August 14, 1990, and Sections 12-503 (2) & (3) of the Groundwater Protection Rule and Strategy, effective February 14, 2005. This indirect discharge is also in compliance with the Vermont Water Quality Standards, effective October 30, 2014.

F5. Additions and Modifications to Attachments A-1, A-2, B, and C:

The permittee shall add or remove disposal fields and manure pits from the authorized lists in Attachments A-1, A-2, B or C under the following provisions:

- A. The permittee shall maintain an average of 120% of the actual acreage necessary for disposal of dairy processing wastewater in each season (see Part II, Condition I3).
- B. The permittee may add fields and manure pits to the disposal program by first applying for an administrative amendment of this permit from the Secretary. Fields and manure pits shall be evaluated in accordance with the Vermont Guidelines for Land Application of Dairy Processing Wastes.
- C. Fields which had been previously listed as approved disposal locations but were removed subsequently may be re-instated through application for an administrative amendment of this permit. For those fields, the permittee must reference the previous information submitted in the application and verify that the previously submitted information is still accurate. Any changes which have occurred must be documented in the application.
- D. Fields that exhibit clogging conditions or excessive leaching of cations to groundwater shall be removed from the disposal program and reported as such in accordance with Condition I13.

SECTION G "INDIRECT DISCHARGE"

G1. Location of Indirect Discharge:

The individual locations of the indirect discharges are located on the streams listed in Attachment A-1, "Approved Disposal Fields", and shown on corresponding field maps. The drainage area listed is at the point of compliance.

Upon issuance of this permit, the permittee shall submit to each town clerk's office a list of Approved Disposal Fields that are within the town to be made available for public review.

G2. Nature of Indirect Discharge:

Dairy processing wastewater is a non-sewage, non-pathogenic waste generated from the cleaning and sanitizing of the permittee's trucks, tanks, equipment, piping and facilities. Dairy processing wastewater consists primarily of washwater, but may contain whey spillage, cottage (acid whey) spillage, and line and tank rinsings which may contain milk, sour cream, cottage cheese or yogurt. Dairy processing wastewater is used as a soil amendment for agricultural purposes to approved disposal fields due to its high nitrogen, phosphorus, and organic content.

The dairy processing wastewater from the facility is pumped to two wastewater storage tanks, each with a capacity of 100,000 gallons. Dairy processing wastewater is loaded by gravity into disposal trucks. The trucks transport the wastewater to approved fields and manure pits in the disposal program and discharge the waste via a spray gun system to fields, or discharge the waste directly into manure pits.

The Vermont Guidelines for the Land Application of Dairy Processing Wastes apply to this discharge. Land application is limited to a maximum volume of one inch per year (27,152 gallons per acre per year). For well-verified year-round fields, the maximum application is 0.5 inches per year (13,576 gallons per acre per year) with a minimum of three foot separation to groundwater during land application. Daily application rates are limited to a maximum of 0.25 inches per day (6,788 gallons per acre per day) in the summer (May 15th - September 15th) and 0.13 inches per day (3,530 gallons per acre per day) the rest of the year.

G3. Summary of Hydrologic Data of Receiving Waters:

Attachment A-1 to the permit identifies the receiving waters and the estimated low median monthly flow at the point of compliance for each disposal field. Flow data from gaged streams of comparable size and location were used to estimate the flows of the receiving streams because flow data does not exist for all the receiving streams.

In accordance with the Vermont Guidelines for Land Application of Dairy Processing Wastes, the dilution ratio between the receiving stream at low monthly median flow and the maximum daily discharge must meet the minimum 10 to 1 dilution ratio for each season. The maximum application rate is 10% of the low median monthly flow per season as indicated in Attachment A-1, or the maximum daily land application limit as per the Vermont Guidelines for Land Application of Dairy Processing Wastes, whichever value is less. Attachment A-2 to the permit provides the maximum application rate for each field under these criteria.

SECTION H "SYSTEM SPECIFICATIONS"

Not Applicable.

SECTION I "SYSTEM OPERATION"

I1. Land Application Prohibitions:

The land application of dairy processing wastewater to any field is strictly prohibited when:

- A. seasonal or stormwater runoff is occurring directly to waters of the State;
- B. the land application of wastewater will cause surface runoff directly to waters of the State;
- C. a rain event is occurring when more than one inch of rain is predicted to fall in an hour or when more than two inches of rainfall is predicted within a 24-hour period, as per the local forecast from the National Weather Service.
- D. groundwater is within 36 inches of the ground surface;
- E. the land application will result in a violation of the Vermont Water Quality Standards, effective October 30, 2014; and
- F. the land application will result in a violation of the Groundwater Protection Rule and Strategy, effective February 14, 2005.

I2. Limits on Land Application:

A. Annual Limits:

This permit authorizes the indirect discharge of dairy processing wastewater generated at a maximum volume of 150,000 gallons per day, for a total annual discharge volume of 54,750,000 gallons. The amount of dairy processing wastewater land applied to any field shall not exceed 1.0 inch per year (27,152 gallons per acre per year). For well-verified year-round fields, the maximum application is 0.5 inches per year (13,576 gallons per acre per year). In no case shall land application exceed the annual discharge volumes listed in Attachment A-2, "Approved Application Rates".

I2. Limits on Land Application (continued):

B. Daily Limits:

The permittee shall not land apply dairy processing wastewater at a rate exceeding 0.25 inches per day (6,788 gallons per acre per day) in the summer (May 15th through September 15th) and 0.13 inches per day (3,530 gallons per acre per day) in the fall, winter, and spring (September 16th through May 14th). For fields with low receiving stream dilution ratios, the maximum daily application rate is restricted to 10% of the low median monthly flow. In no case shall land application exceed the daily application rates listed in Attachment A-2, "Approved Application Rates".

I3. Reserve Area:

Unless other disposal options are available, adequate reserve area must be available at all times for land application. At a minimum, the available area for disposal must be an average of 120% of the facilities dairy processing wastewater flow in each season. The following is a summary of acreage required to be available for the land application of dairy processing wastewater.

Season	Acreage Needed for Disposal ¹	Acreage Required (120%)	Acreage Available ²
Summer (124 days)	685	822	Summer Fields: 543.2 Summer/Fall Fields ³ : 823.7 Year-Round Fields ³ : <u>632.4</u> Total: 1,999.3
Fall (61 days)	337	404.4	Summer/Fall Fields Total: 1,228.1
Winter/Spring (180 days)	994.4	1,193.3	Year-Round Fields Total: 1,825.7

Notes:

1. Based on a maximum annual rate of 150,000 gallons per day.
2. Summer, summer/fall, and year-round fields include observation well verified acreages.
3. Acreages available for summer season after subtracting acreages required for fall and winter/spring seasons.

I4. Annual Inspection, Report and Implementation Schedule:

A. Annual Inspection:

Annually during the month of May, the permittee shall engage a professional engineer registered in the State of Vermont to make a thorough inspection, evaluation, and report of the collection and land application system for the dairy processing wastewater. The permittee shall notify the Secretary at least one week in advance of the inspection date. The engineer's inspection shall include, but not be limited to the following:

1. an examination of the collection system and pump station(s) used to convey the dairy processing wastewater from the production area to the storage tanks;
2. verifying the proper operation of the pump(s) and, if applicable, any alarm system;
3. examination of the tanks and containment structures as well as any leakage detection system;
4. checking the calibration of flow meters used to determine the volume of dairy processing wastewater stored in the tanks or verifying, by the review of recent documentation (within the past two years), that the meters are properly calibrated within a 10% tolerance;
5. checking the equipment utilized to fill the spray trucks and observing the procedure utilized to fill the trucks;
6. observing the land application of dairy processing wastewater on disposal fields, and checking the proper operation of the each truck's spray nozzle;
7. checking each vehicle's daily journal for compliance with the requirements of Condition I11; and
8. noting any necessary repairs and maintenance and/or improvements that should be made to the land application system.

I4. Annual Inspection, Report and Implementation Schedule (continued):

B. Annual Inspection Report:

Annually, by July 1st, the permittee shall have a professional engineer submit an annual report including the following items:

1. a complete discussion of the items inspected and the results of the inspection; and
2. a discussion of the recommended repairs and maintenance and/or improvements.

C. Implementation Schedule:

By July 1st each year, the permittee shall notify the Secretary in writing stating how the engineer's recommendations are to be implemented and including a schedule for their implementation.

I5. Truck Driver Training:

Within six (6) months of the adoption of a rule by the Secretary of the Agency of Agriculture pertaining to the certification of custom applicators, the permittee shall have each current land application truck driver complete eight hours of training as a custom applicator.

I6. Hours of Operation for Land Application:

During spring, summer and fall the permittee shall land apply dairy processing wastewater only between one-half hour before sunrise to one-half hour after sunset. The sunrise and sunset times utilized for this purpose shall be those published in the Vermont Digest of Fish & Wildlife Laws for the date in question.

During winter the permittee may land apply dairy processing wastewater during early morning (after 5:00 a.m.) and late afternoon (until 6:00 p.m.) when it is dark due to the shorter daylight hours available. The permittee shall minimize the amount of land application that occurs during non-daylight hours. When land applying dairy processing wastewater during these hours, the permittee shall maintain a 500' isolation distance between the area applied and any surface waters or habitation. The dairy processing wastewater may not be applied nor travel closer than this prescribed distance.

I7. Landowner Agreement:

For each landowner of a field to be used for disposal, a written and signed agreement is required between the landowner and the permittee, stating the agreement of the owner to allow application on the fields. Unless the permittee has other disposal options available, the permittee must maintain sufficient area available to dispose of 120% of the dairy processing wastewater produced in each season. If, due to the termination of agreement(s), the permittee is not able to maintain sufficient area available to dispose of 120% of the dairy processing wastewater produced in each season, upon learning of this situation, the permittee shall notify the Secretary by phone within one (1) working day and in writing within five (5) working days. The Secretary may require the permittee to take additional measures to address this situation including, but not limited to, identification of new farm fields for land application and/or reduction in the allowable annual design flow to the point where the 120% requirement is met. Any agreement that is terminated must be included in the annual report due July 1st in accordance with Part II, Condition F5.

Fields designated for groundwater and receiving stream monitoring (see Part II, Condition J2), shall have a five (5) year agreement unless the permittee requests in writing and receives written approval from the Secretary allowing a shorter term agreement, stating the owner will allow application of dairy processing wastewater on the fields and will allow additional monitoring as required in Part II, Conditions J4 and J5.

I8. Disposal Vehicles:

The permittee shall maintain a fleet of disposal vehicles adequate to properly dispose of dairy processing wastewater by land application. The permittee shall inspect the spray devices daily as part of the driver's routine in order to reduce clogging and uneven distribution. Any proposed changes in equipment design and/or function shall be approved by the Secretary prior to routine use by the permittee, including using alternative land application techniques on a trial basis.

I9. Other Methods of Disposal:

A. Manure Pits:

The permittee may dispose of dairy processing wastewater and waste whey in a manure pit up to a maximum of ten per cent of the volume of the manure pit annually, as outlined in the Vermont Guidelines for Land Application of Dairy Processing Wastes. The permittee shall record the date, volume and identify the manure pit and submit this information in the Monthly Disposal Report (see Part II, Condition I12). This mixture of dairy processing wastewater and manure shall be spread according to Accepted Agricultural Practices as defined by the Vermont Agency of Agriculture, Food and Markets. A list of the approved manure pits is included as Attachment B of this permit.

The permittee may add manure pits to the authorized list in Attachment B in accordance with the Vermont Guidelines for Land Application of Dairy Processing Wastes.

B. Hayfields:

The permittee may dispose of dairy processing wastewater in the summer to previously used hayfields (referred to as Z-fields) that do not meet the soil/site criteria, as outlined in the Vermont Guidelines for Land Application of Dairy Processing Wastes. Application shall be limited to a two week period following the cutting of hay, and the application rate shall not exceed the daily or seasonal limits specified in Attachment C. There shall be no applications to these fields after September 30th each year.

For hayfields not previously used for land application or previously mapped, application of wastewater shall not occur until the permittee has calculated the acreage and submitted a map to the Secretary for concurrence, and the driver has completed the form "Driver Checklist for Land Application on One-Time Use Fields". A maximum of 0.25 inches of wastewater may be applied on these fields within the two-week period following the cutting of hay each year (6,788 gallons per acre per year), with the daily application rate of no more than 0.125 inches per day (3,394 gallons per acre per day). The permittee shall record the date, volume and location of the field(s) and submit this information in the Monthly Disposal Report (see Part II, Condition I12).

The "Driver Checklist for Land Application on One-Time Use Fields" forms shall be retained for a period of 3 years and copies should be submitted to the Secretary upon request or made available for review upon field inspection by authorized representatives of the Secretary.

The permittee shall notify the town(s) in which the land application is to occur prior to land application if the town(s) has not previously received notification.

I10. Other Restrictions:

The permittee shall conduct the land application of dairy processing wastewater in accordance with the Vermont Guidelines for Land Application of Dairy Processing Wastes and the conditions of this permit, with the following restrictions:

- A. The use of fields designated as observation well-verified shall be given a low priority for application of dairy processing wastewater if other disposal fields are available for use; and
- B. If standing water is observed in any field, land application shall be limited to the area(s) of the field where no standing water is present.

I11. Daily Journal:

The permittee's employees shall maintain a bound, daily journal in each disposal vehicle with printed, pre-numbered pages that remain with the vehicle. The driver of the vehicle shall record in ink, at a minimum, the field name, field number, date, and time of disposal, and any observations including weather, wind direction and speed, standing water, surface runoff, all groundwater level measurements, and any other observations that prohibit the land application of wastewater that day. The driver shall also record any incidence of accidental disposal, spillage that occurs during land application, or any other incidents that may affect the landowner, adjacent landowners, or other members of the public. The driver shall sign and date the entries for each load. The bound log books shall be available for inspection by the authorized representatives of the Secretary and appropriate elected town officials of all towns containing fields in the land application program. Upon request of the Secretary, the permittee shall submit copies of daily journal entries for review.

Alternatively, the permittee's employees may use an approved Driver Checklist for Approved Fields form to record vital information for every load which is land applied. For every load sprayed, the driver of the vehicle must still record in ink, the field name, field number, date, and time of disposal in the daily journal that remains with the vehicle, along with a reference to the completed Driver Checklist for Approved Fields form. The Driver Checklist for Approved Fields forms shall be collected at the end of each day, scanned, and be made available electronically to the Secretary upon request.

I12. Monthly Disposal Report:

The permittee shall submit a monthly report to the Secretary listing the dates of land application, the fields and manure pits which were utilized for disposal, the depth to groundwater in the well-verified monitoring wells, and the volume of dairy processing wastewater applied on each field and to each manure pit. A copy of the daily entry from the daily journal for any date there is an incident shall be submitted. The number of gallons applied on each field shall be totaled and the report submitted by the 15th of each month, and shall include all land application activity which occurred in the previous month.

I13. Annual Report:

By November 30th each year the permittee shall submit a report to the Secretary summarizing the land application program for the previous October 1st through September 30th. The report shall include the following:

Table 1: Field Number
 Field Disposal Capacity (gallons per year)
 Dairy Processing Wastewater gallonage applied during the period
 October 1 – September 30.

Table 2: Manure Pit Name
 Manure Pit Disposal Capacity (gallons per year)
 Dairy Processing Wastewater gallonage discharged to the pit
 during the period October 1 – September 30.

Table 3: Z-Field Number
 Field Disposal Capacity (based on mapped acreage)
 Dairy Processing Wastewater gallonage applied during the period
 October 1 – September 30.

Table 4: Daily Summary of All Loads for Period October 1 – September 30.

Table 5: Fields, manure pits and Z-fields added or removed from the
 disposal program during the period October 1 – September 30.

I14. Cleaning Chemicals:

The permittee shall notify the Secretary in writing of any changes to chemical list submitted to the Secretary on October 6, 2015, or in the cleaning and sanitizing processes. Depending upon the changes made, the Secretary may require an amendment of this permit and/or additional monitoring and reporting requirements.

I15. Alternatives Analysis:

The permittee has voluntarily engaged in a stakeholder process to evaluate potential alternatives for washwater and polished permeate treatment and/or disposal, and to develop an alternatives ranking system based on considerations such as technical feasibility, environmental benefits and cost. The disposal alternatives considered should include the feasibility of both direct and indirect discharging systems. By December 31, 2016, the permittee shall present an Alternatives Analysis report resulting from the stakeholder process, including recommendations for implementation and proposed schedule, to the Secretary for review and consideration. The permittee shall obtain a determination from the Secretary as to whether a permit amendment is necessary, or if other permits must be obtained in order to implement a proposed alternative.

I16. Application for Permit Amendment:

Prior to implementing any proposed alternative, the permittee shall apply for a permit amendment, if required, consistent with the outcome of the Alternatives Analysis report and the Secretary's determination regarding a permit amendment as detailed in Condition I15 above. The permittee shall apply for any necessary permit amendment in accordance with any schedule established by the Secretary.

SECTION J "MONITORING"

J1. Quality Control/Quality Assurance Plan (QA/QC Plan):

The permittee shall perform sampling and analysis for the land application of process wastewater in accordance with the QA/QC Plan dated April 2015, as revised and approved, and the conditions of this permit.

J2. Additional Water Quality Monitoring:

By June 30, 2016, the permittee shall submit a revised QA/QC Plan to the Agency for review and approval for the inclusion of additional groundwater and surface water monitoring. Emphasis shall be placed on monitoring water quality at fields that are used for land application on a regular basis and where the receiving stream low median monthly flow to maximum daily application rate is at or near the minimum 10:1 dilution ratio.

The revised QA/QC Plan shall include the collection and analysis of groundwater and receiving stream samples from a minimum of 15 fields throughout the disposal area. Groundwater sampling and analyses shall be performed in accordance with the requirements of Condition J4(A). Stream sampling shall be performed upstream and downstream of the fields in accordance with the requirements of Condition J5(A).

The revised QA/QC Plan shall also include provisions for performing biological site assessments and a plan for sampling and analysis of the aquatic biota in the receiving streams in accordance with Subchapter 22 of the Indirect Discharge Rules, effective April 30, 2003, in the event that the Secretary determines that biological site assessments and/or sampling and analysis is warranted.

The revised QA/QC Plan shall specify when land application shall take place on the fields identified above to the extent allowed in Attachment A-2, taking into consideration factors such as time of travel and sampling schedules so that groundwater and surface water quality can be evaluated at optimum times.

J3. Dairy Processing Wastewater Monitoring:

A. Chemical:

The dairy processing wastewater land applied to the disposal fields shall be sampled monthly and analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>
Flow	gpd	daily total	continuous
Biochemical Oxygen Demand (5-day)	mg/L	grab	Feb., May, Aug., & Sept.
Total Suspended Solids	mg/L	grab	Feb., May, Aug., & Sept.
Total Phosphorus (TP)	mg/L	grab	Feb., May, Aug., & Sept.
Total Dissolved Phosphorus (TDP)	mg/L	grab	Feb., May, Aug., & Sept.
Chloride (Cl-)	mg/L	grab	Feb., May, Aug., & Sept.
Sodium (Na+)	mg/L	grab	Feb., May, Aug., & Sept.
Total Dissolved Solids	mg/L	grab	Feb., May, Aug., & Sept.
Total Kjeldahl Nitrogen (TKN)	mg/L	grab	Feb., May, Aug., & Sept.
Ammonia Nitrogen (NH ₃)	mg/L	grab	Feb., May, Aug., & Sept.
Nitrite-Nitrate Nitrogen	mg/L	grab	Feb., May, Aug., & Sept.
pH	S.U.	grab	Feb., May, Aug., & Sept.

 Samples shall be taken at the gravity flow line which is used to fill the disposal trucks.

B. Flow Measurement:

The volume of dairy processing wastewater produced, the volume in the storage tanks, and the volume transferred to the disposal vehicles shall be recorded daily and a report shall be submitted to the Secretary containing the monthly totals by the 15th day of the following month.

J4. Groundwater Monitoring:

A. Chemical:

The monitoring wells identified in an approved QA/QC Plan required in Condition J2 above shall be sampled monthly and analyzed for the following parameters:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>
Total Dissolved Solids	mg/L	grab	May, August & September
Total Phosphorus (TP)	mg/L	grab	May, August & September
Total Dissolved Phosphorus (TDP)	mg/L	grab	May, August & September
Chloride (Cl-)	mg/L	grab	May, August & September
Sodium (Na+)	mg/L	grab	May, August & September
Total Kjeldahl Nitrogen (TKN)	mg/L	grab	May, August & September
Ammonia Nitrogen (NH ₃)	mg/L	grab	May, August & September
Nitrite-Nitrate Nitrogen	mg/L	grab	May, August & September
pH	S.U.	grab	May, August & September
Depth to groundwater (below ground surface)	inches		At time of sampling

 Because of the changing water table conditions the samples from the groundwater monitoring wells might not be collected on the same day or in the same week. If a monitoring well has water at any time during the sampling months then a sample is required to be collected and analyzed.

B. Groundwater Levels:

The depth to groundwater (below ground surface) shall be measured and recorded in the monitoring wells for all well-verified fields immediately prior to the spraying of wastewater. No spraying shall be conducted if groundwater is closer than three (3) feet to the ground surface as based on these measurements. Dry wells shall be recorded as "no water to depth of well". Groundwater level measurements shall be recorded in the driver's logbook or checklist even when groundwater is less than 36 inches from ground surface.

J5. Receiving Stream Monitoring:

A. Chemical

The receiving streams identified in an approved QA/QC Plan required in Condition J2 above shall be sampled monthly at locations upstream and downstream of the fields used for land application and analyzed for the following:

<u>Parameter</u>	<u>Units</u>	<u>Type</u>	<u>Sample Frequency</u>
Total Phosphorus	mg/L	grab	August and September
Total Dissolved Phosphorus	mg/L	grab	August and September
Chloride (Cl-)	mg/L	grab	August and September
Sodium (Na+)	mg/L	grab	August and September
Total Kjeldahl Nitrogen (TKN)	mg/L	grab	August and September
Ammonia Nitrogen (NH ₃)	mg/L	grab	August and September
Nitrite-Nitrate Nitrogen	mg/L	grab	August and September
pH	S.U.	grab	August and September
Temperature	Deg.	grab	August and September
Total Alkalinity as CaCO ₃	mg/L	grab	August and September
Dissolved Oxygen	mg/L	grab	August and September
Turbidity	N.T.U.	grab	August and September
Conductivity	S/m	grab	August and September

 The permittee shall not sample the receiving stream within 24 hours of any storm event affecting the stream's watershed.

B. Biological:

If the Secretary determines it is necessary, the permittee shall, upon written notice from the Secretary, have qualified aquatic biologist perform biological site assessment(s) and/or biological sampling and analysis of the receiving stream(s) in accordance with an approved QA/QC Plan.

J6. Submittal of Monitoring Results:

The daily volumes of process wastewater land applied and discharged to manure pits, and the well-verified groundwater depth measurements required by Conditions J3 and J4 above shall be submitted to the Secretary by the 15th day of the following month following the date of measurement.

The results of all the process wastewater, groundwater and surface water sampling required by Conditions J3 – J5 above shall be submitted to the Secretary by the 15th day of the second month following the date of sampling.

J7. Soil Sampling:

By March 31, 2016, the permittee shall submit a proposed list of fields to be sampled to the Secretary for review and approval. Emphasis shall be place on fields which have been regularly used for land application for many years.

Composite soil samples shall be collected from a minimum of 30 fields approved for sampling in accordance with UVM Extension Service guidelines. Composite samples must be representative of the soils of each field. For fields larger than 20 acres, one composite sample shall be collected for every 20 acres. Sampling shall occur before manure, fertilizer or lime is applied to the fields. The soil samples shall be analyzed for, at a minimum, total exchange capacity, pH, percent organic matter, sulfur, phosphorus (as P₂O₅), calcium, magnesium, potassium, sodium, exchangeable hydrogen and the minor elements.

By October 31, 2016, the permittee shall submit all soil sampling results to the Secretary for review.

By December 31, 2016, the permittee shall have a qualified soil specialist review the soil sampling results and submit an evaluation of soil conditions for each field sampled to the Secretary. The evaluation shall identify the soil types and determine the nutrient leaching potential of each field.

J8. Water Quality Evaluation:

By March 31, 2020, the permittee shall have a qualified water quality specialist submit a water quality evaluation to the Secretary of all the washwater, groundwater and surface water quality data collected during the 2015 – 2019 permit period. Biological monitoring data, if requested by the Secretary, shall also be included. The report shall summarize what, if any, short or long term impacts there have been on groundwater or surface water quality. The report shall also include a summary of the volume of dairy processing wastewater applied to the fields prior to groundwater and/or surface water sampling.

The water quality evaluation shall indicate whether the land application of process wastewater is in compliance with the Groundwater Protection Rule and Strategy and the Vermont Water Quality Standards.

J9. Toxic Scan of Dairy Processing Wastewater:

The permittee shall conduct at least three toxic scan analyses during the permit period. In December 2016, June 2018 and December 2019, representative samples of dairy processing wastewater shall be collected and analyzed for the presence of toxic contaminants utilizing the Toxicity Characteristic Leaching Procedure (TCLP) prior to laboratory analysis. The three toxic scans are the minimum during the term of this permit; the Secretary reserves the right to request and/or perform additional sampling and analyses for toxic contaminants during the term of this permit.

In addition to reporting the TCLP list of compounds, the permittee shall contract with a firm that which employs an individual or individuals qualified to review the full data chromatograms generated by the analytical laboratory. The purpose of this additional review is to check for the presence of other compounds in addition to those listed in Table 1 of the Vermont Hazardous Waste Management Regulations, a total analysis for the presence/absence of regulatory compounds in the dairy processing wastewater. This additional review shall be conducted for each toxic scan with the results submitted by the date indicated above. If additional toxic scans are required, the Secretary will determine the date(s) for submitting the results of those scans and chromatogram assessments.

The results of the toxic scan analyses and a full review and report of the chromatogram data by a quality consulting firm shall be submitted within 90 days from the date of sampling.

PART III: GENERAL CONDITIONS AND REQUIREMENTS

These conditions and requirements apply to all components of the polished permeate and dairy processing wastewater collection, treatment, and disposal operation under this permit.

SECTION K - "GENERAL"

K1. Expiration Date:

This permit, unless revoked, or amended shall be valid until June 30, 2020 despite any intervening change in Water Quality Standards or the classification of receiving waters. Renewal of this Indirect Discharge permit will be subject to all rules applicable at the time of renewal.

The permittee shall apply for renewal of this Indirect Discharge Permit by March 31, 2020.

K2. Revocation:

The Secretary may revoke this permit in accordance with 10 V.S.A. §1267.

K3. Transfer of Permit:

This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, before any sale, lease or other transfer of ownership of the property from which the permitted discharge originates. The proposed transferee shall make application for a permit to be reissued in their name. Failure to apply shall be considered a violation of this permit. Responsibility for compliance with the conditions of this permit shall be the burden of the permittee until such time as transfer of the permit to the transferee is complete. All application and operating fees must be paid in full prior to transfer of this permit. This permit shall be transferred only upon showing by the permittee or proposed transferee of compliance with the following conditions:

- A. The transferee shall be a legal entity, financially and technically competent to operate, inspect, maintain and replace the system.
- B. If the transferee is a corporation or an association of unit owners or other legal entity, it shall be demonstrated that such legal entity has legal authority to raise revenues for the proper operation, inspection, and maintenance of the system.
- C. The transferee shall provide a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittees to the Secretary.

K4. Modifications of Permit:

The Secretary reserves the right to reopen and amend this permit to include additional polished permeate, dairy processing wastewater, soil, groundwater and/or surface water monitoring requirements based on the results of monitoring required by this permit. The Secretary shall provide the permittee with public notice and an opportunity for a public hearing before amending the permit.

The Secretary may make minor modifications of this permit without requiring a permit application, a public notice, or a public hearing if the modifications are to correct typographical errors.

K5. Right of Secretary to Inspect:

The permittee shall allow the Secretary or the Secretary's authorized representative, upon presentation of their credentials and at reasonable times:

- A. To enter upon any field or inspect any manure pit being used as a disposal site;
- B. To enter upon permittee's premises in which any polished permeate or process wastewater source, treatment or disposal system is located or in which any records are required to be kept under the conditions of the permit;
- C. To have access to and copy any records required to be kept under conditions of this permit;
- D. To inspect any monitoring equipment or method required in this permit;
- E. To sample any discharge of waste, groundwater or surface water; and
- F. To inspect at reasonable times, any collection, treatment, pollution management and disposal location authorized by this permit.

K6. Permit Availability:

A copy of this permit shall remain at the office of the permittee and, upon request by the Secretary, shall be made available for inspection by the Secretary.

K7. Operator Certification:

The permittee is required at all times to employ a chief and an assistant chief operator that shall supervise and be responsible for all aspects of the polished permeate and dairy processing wastewater collection, treatment, and disposal operation under this permit. These individuals shall each hold an Industrial Class I operator certificate from the Department of Environmental Conservation in accordance with the Wastewater Treatment Facility Operator Certification Rule, dated September 25, 2014. The permittee shall submit to the Secretary in writing the names of the chief and assistant chief operator and notify the Secretary in writing immediately of any change of operator or assistant operator.

K8. Laboratory Performance:

The laboratory identified in the Quality Assurance/Quality Control Plan, dated April 2015 or as revised, shall demonstrate successful performance for U.S. EPA check samples for all parameters and shall analyze any check samples provided by the Secretary. Failure to obtain an acceptable result for either the Department of Environmental Conservation or EPA check samples may be a basis for requiring an alternate analytical laboratory.

K9. Sampling and Testing Procedures:

All wastewater, groundwater and surface water sampling, preservation, handling and test procedures used to comply with the monitoring requirements herein shall conform to procedures specified in the most current edition of Standard Methods for the Examination of Water and Wastewater APHA - AWWA - WPCF, and the Vermont Water Quality Standards unless written approval of an alternate method is received from the Agency.

K10. Miscellaneous:

If the permittee monitors any required parameter set forth in this permit for this disposal system more frequently or at additional locations than required by this permit, the results of such monitoring shall be included in the Monthly Disposal Report.

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Secretary.

Records shall include laboratory bench sheets showing exact location, time and composites of samples as well as analytical procedures used, interim results obtained and all calculations supporting the reported test results.

K11. Operating Fees:

This indirect discharge is subject to operating fees. The permittee shall submit the operating fees in accordance with procedures provided by the Secretary.

SECTION L - "COMPLIANCE REVIEW"

If the results of monitoring the polished permeate, dairy processing wastewater, groundwater, storage ponds, or the receiving streams show there is a possibility that the Vermont Water Quality Standards, effective October 30, 2014, or the Groundwater Protection Rule and Strategy, effective February 14, 2005, may be violated, the Secretary may increase the frequency of, or change the location of, monitoring of the groundwater or surface water. If continued monitoring and analysis indicates that a violation of the polished permeate and/or dairy processing wastewater disposal volumes or a violation of the Vermont Water Quality Standards, effective October 30, 2014, or the Groundwater Protection Rule and Strategy, effective February 14, 2005, has occurred, is occurring, or is likely to occur, the Secretary may require the permittee to take appropriate corrective action to eliminate or reduce the possibility of a violation.

The issuance of this Indirect Discharge Permit, ID-9-0043, to Agri-Mark, Inc. (dba Cabot Creamery), by the Secretary relies upon the data, designs, judgement, and other information supplied by the applicant, their consultants and other experts who have participated in the preparation of the application. The Secretary makes no assurance that this system will meet the performance objectives of the applicant and no warranties or guarantees are given or implied.

SECTION M - "EFFECTIVE DATE"

This Indirect Discharge Permit, ID-9-0043, issued to Agri-Mark, Inc. (dba Cabot Creamery) for the indirect discharge of polished permeate and dairy processing wastewater, is effective this 12th day of January, 2016.

Alyssa B. Schuren, Commissioner
Department of Environmental Conservation
VT Agency of Natural Resources

By:



Christine Thompson, Director
Drinking Water and Groundwater Protection Division

**Agri-Mark dba Cabot Creamery
 Indirect Discharge Permit ID-9-0043
 Approved Land Application Summary
 December 3, 2015**

Attachment A

CODE	ACRES	4/1 - 5/14 gal/day	5/15 - 5/31 gal/day	6/1 - 9/15 gal/day	9/16 - 10/31 gal/day	11/1 - 11/15 gal/day	11/16 - 3/31 gal/day	ANNUAL gal/year
S	398.5	0	2,448,741	1,797,106	0	0	0	10,820,072
V-S	144.7	0	982,224	678,948	0	0	0	3,846,081
SF	879.1	0	5,915,107	4,189,817	2,454,945	2,982,990	0	23,869,323
V-SF	349.0	0	2,342,995	1,668,265	970,130	1,160,435	0	9,322,639
YR	1,144.8	4,020,136	7,548,163	5,622,627	3,253,775	3,772,611	3,772,611	31,083,610
V-YR	680.9	2,402,119	4,453,182	3,242,961	1,895,620	2,210,593	2,210,593	9,458,128
TOTAL								88,399,852

Code Description:

- S Summer only
- V-S Summer only after verifying groundwater levels
- SF Summer/Fall only
- V-SF Summer/Fall only after verifying groundwater levels
- YR Year-Round
- V-YR Year-Round after verifying groundwater levels

Agri-Mark dba Cabot Creamery
 Indirect Discharge Permit ID-9-0043
 Receiving Stream Data - December 3, 2015

Attachment A-1

FIELD #	OWNER	TOWN	TOTAL ACRES	USABLE ACRES	RECEIVING STREAM	COMPARABLE STREAM	SPRING LMMF (GPD)	SUMMER LMMF (GPD)	WINTER LMMF (GPD)
001A	BOTHFELD	CABOT	6.7	2.7	COITS POND DRAINAGE	SUNNY BROOK	2,818,071	150,075	800,399
001B	BOTHFELD	CABOT	5.9	5.7	UNNAMED TRIBUTARY	LEWIS CREEK	6,167,932	390,375	1,834,765
001D	BOTHFELD	CABOT	17.4	15.1	UNNAMED TRIBUTARY	LEWIS CREEK	8,026,482	508,005	2,387,624
001E	BOTHFELD	CABOT	20.2	17.6	JUG BROOK	LEWIS CREEK	6,596,828	417,521	1,962,348
001F	BOTHFELD	CABOT	24.1	19.5	JUG BROOK TRIBUTARY	SUNNY BROOK	2,730,689	145,421	775,580
001G	BOTHFELD	CABOT	4.4	2.7	JUG BROOK TRIBUTARY	SUNNY BROOK	2,730,689	145,421	775,580
001H	BOTHFELD	CABOT	45	23.4	JUG BROOK TRIBUTARY	STONY BROOK	981,174	179,224	325,033
009A	KISH	HARDWICK	6.4	4.5	UNNAMED STREAM	SUNNY BROOK	688,134	40,718	195,446
011A	DELARICHELIERE	HARDWICK	13	12.4	LAMOILLE RIVER	LAMOILLE RIVER	72,833,463	21,735,641	30,506,162
011B	DELARICHELIERE	HARDWICK	7.4	7.2	LAMOILLE RIVER TRIBUTARY	SUNNY BROOK	1,966,096	104,703	558,418
011C	DELARICHELIERE	HARDWICK	14.1	14.1	LAMOILLE RIVER	LAMOILLE RIVER	61,970,167	18,493,715	25,956,091
011D	DELARICHELIERE	HARDWICK	17	16.7	LAMOILLE RIVER	LAMOILLE RIVER	61,747,963	18,427,403	25,863,021
011E	DELARICHELIERE	HARDWICK	10.9	10.9	LAMOILLE RIVER	LAMOILLE RIVER	61,747,963	18,427,403	25,863,021
011F	DELARICHELIERE	HARDWICK/WALDEN	12.4	12.4	LAMOILLE RIVER	LAMOILLE RIVER	61,747,963	18,427,403	25,863,021
011G	DELARICHELIERE	WALDEN	5.3	5.3	LAMOILLE RIVER	LAMOILLE RIVER	96,986,329	18,427,403	25,863,021
017A	CHANDLER	PEACHAM	11	8.2	EAST PEACHAM BROOK	SUNNY BROOK	1,135,967	60,495	322,641
017B	CHANDLER	PEACHAM	19	17.5	EWELL POND TRIBUTARY	STONY BROOK	2,254,612	411,833	746,884
017C	CHANDLER	PEACHAM	6.8	7.5	EWELL POND TRIBUTARY	SUNNY BROOK	1,529,186	81,436	434,325

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017D	CHANDLER	PEACHAM	7.6	6.4	EWELL POND TRIBUTARY	SUNNY BROOK	1,529,186	81,436	434,325
023A	ROWELL	WALDEN	15.5	7.5	PERKINS MEADOW BROOK	SUNNY BROOK	589,829	31,411	167,525
023B	ROWELL	WALDEN	13.5	12.4	LYFORD POND	SUNNY BROOK	567,983	30,248	161,321
023D	ROWELL	WALDEN	13	10.1	LYFORD POND	SUNNY BROOK	567,983	30,248	161,321
023F	ROWELL	WALDEN	8.8	8.3	LYFORD POND	SUNNY BROOK	567,983	30,248	161,321
025A	MICHAUD	WALDEN	20.5	19	UNNAMED TRIBUTARY	SUNNY BROOK	1,518,263	80,854	431,223
025B	MICHAUD	WALDEN	15	3.9	UNNAMED TRIBUTARY	SUNNY BROOK	1,518,263	80,854	431,223
025C	MICHAUD	WALDEN	8.5	5.8	UNNAMED TRIBUTARY	SUNNY BROOK	1,277,963	68,057	362,972
033B	FOLSOM	CABOT	4.2	4.2	HOOKERS BROOK	STONY BROOK	7,724,134	1,410,910	2,558,769
033C	FOLSOM	CABOT	8.1	6.9	HOOKERS BROOK	STONY BROOK	7,724,134	1,410,910	2,558,769
033D	FOLSOM	CABOT	6.1	4.9	HOOKERS BROOK	STONY BROOK	7,724,134	1,410,910	2,558,769
043A	CLIFFORD	WALDEN	25	12.4	MORRILL BROOK	SUNNY BROOK	3,309,595	176,251	940,003
048A	LAGGIS	HARDWICK	31	6.4	PORTER BROOK	STONY BROOK	9,435,970	1,723,598	3,125,848
050C	LAGGIS	HARDWICK	18.6	15.9	UNNAMED TRIBUTARY	STONY BROOK	981,174	179,224	325,033
050D	LAGGIS	HARDWICK	15	8.3	UNNAMED TRIBUTARY	STONY BROOK	981,174	179,224	325,033
050E	LAGGIS	HARDWICK	36.8	32.8	UNNAMED TRIBUTARY	STONY BROOK	981,174	179,224	325,033
050H	LAGGIS	HARDWICK	34.7	31.1	PORTER BROOK	STONY BROOK	9,435,970	1,723,598	3,125,848
052A	BROWN	HARDWICK	18.2	14.9	HAYNESVILLE BROOK	LEWIS CREEK	14,490,556	917,124	4,310,482

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052B	BROWN	HARDWICK	10.4	8.7	HAYNESVILLE BROOK	LEWIS CREEK	14,490,556	917,124	4,310,482
052C	BROWN	HARDWICK	7.9	5.8	HAYNESVILLE BROOK	LEWIS CREEK	14,490,556	917,124	4,310,482
052F	BROWN	HARDWICK	6.7	2.8	HAYNESVILLE BROOK	LEWIS CREEK	14,500,768	917,770	4,313,520
054A	SHERRY	DANVILLE	31.9	28.3	WATER ANDRIC BROOK	STONY BROOK	7,536,250	1,376,591	2,496,529
054D	SHERRY	DANVILLE	18.8	18.4	WATER ANDRIC BROOK	STONY BROOK	6,116,679	1,117,288	2,026,268
054E	SHERRY	DANVILLE	14.1	13.5	BROWN BROOK	STONY BROOK	9,498,598	1,735,038	3,146,594
054F	SHERRY	DANVILLE	24.6	22.4	WATER ANDRIC BROOK	STONY BROOK	11,481,822	2,097,299	3,803,576
060J	HALL	PLAINFIELD	20.5	18.2	WINOOSKI RIVER	WINOOSKI RIVER	162,160,935	31,087,848	57,974,635
060L	HALL	PLAINFIELD	13	13	UNNAMED STREAM	SUNNY BROOK	873,821	51,705	248,186
060O	HALL	EAST MONTPELIER	6.4	4.4	UNNAMED STREAM	SUNNY BROOK	1,387,190	82,082	393,995
062D	BELLAVANCE	CABOT	63.89	10.1	JOES POND TRIBUTARY	STONY BROOK	981,174	179,224	325,033
063A	GREAVES	WALDEN	10.8	9.6	PERKINS MEADOW BROOK	SUNNY BROOK	917,512	48,862	260,595
063B	GREAVES	WALDEN	52.3	45.8	WINOOSKI TRIBUTARY	SUNNY BROOK	546,138	29,084	155,116
065A	TRUDEAU	HARDWICK	12.7	10.9	HARDWICK / LAMOILLE	LAMOILLE RIVER	145,666,925	43,471,281	61,012,325
065B	TRUDEAU	HARDWICK	26.9	26.1	HARDWICK / LAMOILLE	LAMOILLE RIVER	145,666,925	43,471,281	61,012,325
065D	TRUDEAU	HARDWICK	16.9	11.1	HARDWICK / LAMOILLE	SUNNY BROOK	513,370	27,339	145,809
065E	TRUDEAU	HARDWICK	35.2	31.3	HARDWICK / LAMOILLE	LAMOILLE RIVER	145,666,925	43,471,281	61,012,325
065F	TRUDEAU	HARDWICK	7.2	4.5	HARDWICK / LAMOILLE	LAMOILLE RIVER	145,666,925	43,471,281	61,012,325

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065G	TRUDEAU	HARDWICK	43.4	21.5	HARDWICK / LAMOILLE	SUNNY BROOK	775,516	41,300	220,265
065H	TRUDEAU	HARDWICK	57.6	7.4	HARDWICK / LAMOILLE	SUNNY BROOK	775,516	41,300	220,265
066G	HALL	CRAFTSBURY	10.7	9.7	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
066H	HALL	CRAFTSBURY	21.2	21.2	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
070A	DAVIS	WALDEN	8	6.6	PERKINS MEADOW BROOK	STONY BROOK	6,868,217	1,254,566	2,275,230
070B	DAVIS	WALDEN	10	7.9	PERKINS MEADOW BROOK	STONY BROOK	6,868,217	1,254,566	2,275,230
070C	DAVIS	WALDEN	4.4	3.3	PERKINS MEADOW BROOK	STONY BROOK	6,868,217	1,254,566	2,275,230
070D	DAVIS	WALDEN	4.5	4.5	PERKINS MEADOW BROOK	STONY BROOK	6,868,217	1,254,566	2,275,230
070F	DAVIS	WALDEN	25.8	15.2	PERKINS MEADOW BROOK	STONY BROOK	6,868,217	1,254,566	2,275,230
071A	MCCOY	GREENSBORO	12.2	9.1	ALDER BROOK	SUNNY BROOK	1,343,499	71,547	381,586
071B	MCCOY	GREENSBORO	18.9	9.7	MUD POND	STONY BROOK	981,174	179,224	325,033
071C	MCCOY	GREENSBORO	13.3	7.2	MUD POND	STONY BROOK	981,174	179,224	325,033
071D	MCCOY	GREENSBORO	10.9	8.2	UNNAMED TRIBUTARY	STONY BROOK	981,174	179,224	325,033
071E	MCCOY	GREENSBORO	4.8	3.2	UNNAMED TRIBUTARY	STONY BROOK	981,174	179,224	325,033
071F	MCCOY	HARDWICK	6	5.1	UNNAMED TRIBUTARY	STONY BROOK	981,174	179,224	325,033
071G	MCCOY	HARDWICK	12.4	10.7	ALDER BROOK	SUNNY BROOK	3,069,295	163,454	871,752
071H	MCCOY	HARDWICK	4.5	4.1	ALDER BROOK	SUNNY BROOK	3,888,502	207,080	1,104,426
071K	MCCOY	HARDWICK	8.4	7	ALDER BROOK	SUNNY BROOK	3,888,502	207,080	1,104,426

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071L	MCCOY	HARDWICK	14.6	6.4	PORTER BROOK	STONY BROOK	1,064,678	194,477	352,695
071M	MCCOY	HARDWICK	8.1	8.1	ALDER BROOK	SUNNY BROOK	3,069,295	163,454	871,752
073A	KISH	HARDWICK	26.5	20.2	LAMOILLE RIVER TRIBUTARY	STONY BROOK	981,174	179,224	325,033
073B	KISH	HARDWICK	4.8	4.8	LAMOILLE RIVER TRIBUTARY	STONY BROOK	981,174	179,224	325,033
073C	KISH	HARDWICK	36.5	34.7	LAMOILLE RIVER TRIBUTARY	STONY BROOK	981,174	179,224	325,033
073D	KISH	HARDWICK	8.2	8.2	PORTER BROOK	SUNNY BROOK	3,047,449	162,290	865,548
073E	KISH	HARDWICK	19.6	19.6	PORTER BROOK	SUNNY BROOK	3,047,449	162,290	865,548
073F	KISH	HARDWICK	7.8	3.9	PORTER BROOK	SUNNY BROOK	3,047,449	162,290	865,548
073G	KISH	HARDWICK	7.8	5	PORTER BROOK	SUNNY BROOK	3,047,449	162,290	865,548
073H	KISH	HARDWICK	6	4.3	PORTER BROOK	SUNNY BROOK	3,047,449	162,290	865,548
073I	KISH	HARDWICK	4.1	1.5	PORTER BROOK	SUNNY BROOK	3,047,449	162,290	865,548
073J	EARLE	HARDWICK	12.2	11.2	PORTER BROOK	SUNNY BROOK	2,381,161	126,807	676,306
073K	KISH	HARDWICK	29.4	18.4	LAMOILLE RIVER TRIBUTARY	STONY BROOK	981,174	179,224	325,033
074A	GEBBIE	GREENSBORO	2.9	2.9	WHETSTONE BROOK	STONY BROOK	1,336,067	244,049	442,598
074B	GEBBIE	GREENSBORO	26.1	26.1	WHETSTONE BROOK	STONY BROOK	1,336,067	244,049	442,598
074C	GEBBIE	GREENSBORO	4.1	4	WHETSTONE BROOK	STONY BROOK	1,336,067	244,049	442,598
074D	GEBBIE	GREENSBORO	22.22	10.1	UNNAMED TRIBUTARY	STONY BROOK	981,174	179,224	325,033
075A	BICKFORD	MARSHFIELD	40.4	10.1	COLD BROOK	SUNNY BROOK	2,559,415	489,133	762,137

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075B	BICKFORD	MARSHFIELD	26.2	22.3	WINOOSKI RIVER	MISSISQUOI RIVER	109,138,704	20,857,619	32,499,081
077A	LANGMAID	DANVILLE	50.8	49.4	POPE BROOK	SUNNY BROOK	2,129,938	113,429	604,953
078A	RIENDEAU	ALBANY	24.5	22.2	BLACK RIVER	BLACK RIVER	88,276,044	22,069,011	31,664,233
078B	RIENDEAU	ALBANY	12.2	11.5	BLACK RIVER	BLACK RIVER	88,276,044	22,069,011	31,664,233
078C	RIENDEAU	ALBANY	37.9	25.8	BLACK RIVER	BLACK RIVER	88,276,044	22,069,011	31,664,233
078D	RIENDEAU	ALBANY	34.9	19.6	BLACK RIVER	BLACK RIVER	88,276,044	22,069,011	31,664,233
080A	MICHAUD	WALDEN	15.2	15.2	LAMOILLE RIVER TRIBUTARY	STONY BROOK	981,174	179,224	325,033
080B	MICHAUD	WALDEN	17.3	14.3	LAMOILLE RIVER TRIBUTARY	STONY BROOK	981,174	179,224	325,033
080C	MICHAUD	WALDEN	15.9	15.9	STEVENS BROOK	STONY BROOK	2,442,497	446,153	809,124
080D	MICHAUD	WALDEN	19.2	19.2	STEVENS BROOK	STONY BROOK	2,442,497	446,153	809,124
080E	MICHAUD	WALDEN	14.7	9.4	LAMOILLE RIVER TRIBUTARY	STONY BROOK	981,174	179,224	325,033
084D	KENDALL	BARNET	5.1	3.5	PASSUMPSIC RIVER	PASSUMPSIC RIVER	910,014,336	110,197,049	181,291,919
084E	KENDALL	BARNET	6.2	6.1	PASSUMPSIC RIVER	PASSUMPSIC RIVER	910,014,336	110,197,049	181,291,919
084F	KENDALL	BARNET	9.1	9.1	PASSUMPSIC RIVER	PASSUMPSIC RIVER	910,014,336	110,197,049	181,291,919
085A	ROBINSON	BARNET	11.68	11.68	PASSUMPSIC RIVER	PASSUMPSIC RIVER	910,014,336	110,197,049	181,291,919
086A	NELSON	CRAFTSBURY	26.8	26.8	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
086B	NELSON	CRAFTSBURY	6.6	6.6	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
086C	NELSON	CRAFTSBURY	18.4	8.4	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683

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086D	NELSON	CRAFTSBURY	13.4	12.3	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
086E	NELSON	CRAFTSBURY	12.8	11.1	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
086F	NELSON	CRAFTSBURY	15.2	13.6	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
087A	JONES	CRAFTSBURY	5.4	3.9	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
087B	JONES	CRAFTSBURY	19.5	13.6	BLACK RIVER TRIBUTARY	STONY BROOK	1,607,455	293,622	532,501
087C	JONES	CRAFTSBURY	7.1	5.4	BLACK RIVER TRIBUTARY	STONY BROOK	1,607,455	293,622	532,501
087D	JONES	CRAFTSBURY	14.8	13	BLACK RIVER TRIBUTARY	STONY BROOK	1,607,455	293,622	532,501
087E	JONES	CRAFTSBURY	11.9	10.8	CASS BROOK	STONY BROOK	5,782,663	1,056,276	1,915,619
087F	JONES	CRAFTSBURY	16	10.8	CASS BROOK	STONY BROOK	5,782,663	1,056,276	1,915,619
088A	NELSON	CRAFTSBURY	11.5	9.8	BLACK RIVER TRIBUTARY	STONY BROOK	1,607,455	293,622	532,501
088B	NELSON	CRAFTSBURY	14.8	14.7	BLACK RIVER TRIBUTARY	STONY BROOK	1,607,455	293,622	532,501
088C	NELSON	CRAFTSBURY	22.8	21.9	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
088D	NELSON	CRAFTSBURY	35	31.4	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
088E	NELSON	CRAFTSBURY	15.8	15.8	LITTLE HOSMER POND	STONY BROOK	2,734,761	499,538	905,943
088F	NELSON	ALBANY	17.8	15.3	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
088G	NELSON	ALBANY	16.1	8.9	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
088H	NELSON	ALBANY	10.7	9.2	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683
088K	NELSON	ALBANY	33.4	25.6	BLACK RIVER	STONY BROOK	4,530,100	827,480	1,500,683

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091A	STRONG	CRAFTSBURY	32.6	24.1	BLACK RIVER	BLACK RIVER	53,515,048	13,378,762	19,195,615
091B	STRONG	CRAFTSBURY	5.7	5.7	BLACK RIVER	BLACK RIVER	53,515,048	13,378,762	19,195,615
091C	STRONG	CRAFTSBURY	3.5	3.5	BLACK RIVER	BLACK RIVER	53,515,048	13,378,762	19,195,615
091D	STRONG	CRAFTSBURY	11.7	11.5	BLACK RIVER	BLACK RIVER	53,515,048	13,378,762	19,195,615
091E	STRONG	CRAFTSBURY	39.3	35.7	BLACK RIVER	BLACK RIVER	53,515,048	13,378,762	19,195,615
095E	GEORGE	CALAIS	40.2	33.3	STILL BROOK	SUNNY BROOK	819,207	43,626	232,674
095F	GEORGE	CALAIS	13.9	10.6	STILL BROOK	SUNNY BROOK	819,207	43,626	232,674
096A	RIENDEAU	GLOVER	32.5	24.6	BARTON RIVER	STEVENS RIVER	35,596,555	3,673,666	6,460,585
097A	FRYE	DANVILLE	6.3	5	JOES BROOK	STEVENS RIVER	37,957,551	3,917,327	6,889,093
097B	FRYE	DANVILLE	13.1	12.4	JOES BROOK	STEVENS RIVER	37,957,551	3,917,327	6,889,093
097C-A	FRYE	DANVILLE	13.2	6.6	JOES BROOK	STEVENS RIVER	37,957,551	3,917,327	6,889,093
097C-B	FRYE	DANVILLE	13.2	4.5	BROWN BROOK	SUNNY BROOK	2,403,007	127,971	981,109
098A	DEMERITT	CRAFTSBURY	28.2	19.9	UNNAMED STREAM	BROWNINGTON BRANCH	1,126,207	54,937	252,710
098B	DEMERITT	CRAFTSBURY	13.1	11.1	UNNAMED STREAM	BROWNINGTON BRANCH	1,126,207	54,937	252,710
098C	DEMERITT	CRAFTSBURY	3.3	2.8	UNNAMED STREAM	BROWNINGTON BRANCH	1,126,207	54,937	252,710
098D	DEMERITT	CRAFTSBURY	1.4	1.4	UNNAMED STREAM	BROWNINGTON BRANCH	1,126,207	54,937	252,710
099A	WRIGHT	WHEELLOCK	7.2	2.6	FLAGG BROOK	STONY BROOK	8,976,697	1,639,706	2,973,705
099B	WRIGHT	WHEELLOCK	3.8	3.8	FLAGG BROOK	STONY BROOK	8,976,697	1,639,706	2,973,705

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100A	PETERSON	CALAIS	36.7	29.6	KINGSBURY BRANCH	AYERS BROOK	41,803,784	5,374,772	15,527,120
100B	PETERSON	CALAIS	34.7	27.3	KINGSBURY BRANCH	AYERS BROOK	41,803,784	5,374,772	15,527,120
100C	PETERSON	CALAIS	28.3	12.1	KINGSBURY BRANCH	AYERS BROOK	41,803,784	5,374,772	15,527,120
101A	MCREYNOLDS	DANVILLE	10.9	10.9	SLEEPERS RIVER	STEVENS RIVER	29,966,488	3,092,627	5,438,758
101B	MCREYNOLDS	DANVILLE	10.9	10.9	SLEEPERS RIVER	STEVENS RIVER	29,966,488	3,092,627	5,438,758
101C	MCREYNOLDS	DANVILLE	15.1	11.1	SLEEPERS RIVER	STEVENS RIVER	29,966,488	3,092,627	5,438,758
101D	MCREYNOLDS	DANVILLE	7.3	7.3	SLEEPERS RIVER	STEVENS RIVER	29,966,488	3,092,627	5,438,758
101E	MCREYNOLDS	DANVILLE	31.7	21.6	SLEEPERS RIVER	STEVENS RIVER	29,966,488	3,092,627	5,438,758
102A	BEATTIE	DANVILLE	26.7	16	WATER ANDRIC BROOK	STONY BROOK	8,976,697	1,639,706	2,973,705
102B	BEATTIE	DANVILLE	11.4	7.9	WATER ANDRIC BROOK	STONY BROOK	8,976,697	1,639,706	2,973,705
102C	BEATTIE	DANVILLE	28.1	25.5	WATER ANDRIC BROOK	STONY BROOK	8,976,697	1,639,706	2,973,705
102D	BEATTIE	DANVILLE	15	14.1	ROY BROOK	BROWNINGTON BRANCH	1,854,930	90,484	416,228
102E	BEATTIE	DANVILLE	4.9	4.9	WHITEMAN BROOK	SUNNY BROOK	2,403,007	127,971	682,511
102F	BEATTIE	DANVILLE	7.3	5.7	WHITEMAN BROOK	SUNNY BROOK	2,403,007	127,971	682,511
103A	BRUNETTO	DANVILLE	17.9	13.1	SAWYER BROOK	SUNNY BROOK	2,839,917	151,238	806,604
103B	BRUNETTO	DANVILLE	16.4	12.9	SAWYER BROOK	SUNNY BROOK	2,839,917	151,238	806,604
105A	SIMPSON	BARTON	10.4	10.3	WILLOUGHBY RIVER	N. BR. WINOOSKI RIVER	106,074,839	9,969,440	24,724,211
105B	SIMPSON	BARTON	24	22.7	WILLOUGHBY RIVER	N. BR. WINOOSKI RIVER	106,074,839	9,969,440	24,724,211

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105C	SIMPSON	BARTON	24.9	18.2	WILLOUGHBY RIVER	N. BR. WINOOSKI RIVER	106,074,839	9,969,440	24,724,211
105D	SIMPSON	BARTON	16.8	8.5	WILLOUGHBY RIVER	N. BR. WINOOSKI RIVER	106,074,839	9,969,440	24,724,211
105E	SIMPSON	BARTON	14.7	7.3	WILLOUGHBY RIVER	N. BR. WINOOSKI RIVER	106,074,839	9,969,440	24,724,211
106A	MCALLISTER, R	HARDWICK	3.4	3.4	LAMOILLE RIVER	LAMOILLE RIVER	123,446,547	36,840,069	51,705,360
106B	MCALLISTER, R	HARDWICK	3.4	3.1	LAMOILLE RIVER	LAMOILLE RIVER	123,446,547	36,840,069	51,705,360
106C	MCALLISTER, R	HARDWICK	9.5	7.9	LAMOILLE RIVER	LAMOILLE RIVER	123,446,547	36,840,069	51,705,360
106D	MCALLISTER, R	WOLCOTT	9.9	9.1	LAMOILLE RIVER	LAMOILLE RIVER	130,853,340	39,050,473	54,807,682
107A	MCALLISTER, W	HARDWICK	9.6	9.6	LAMOILLE RIVER	LAMOILLE RIVER	123,446,547	36,840,069	51,705,360
107B	MCALLISTER, W	HARDWICK	17.4	16.2	LAMOILLE RIVER	LAMOILLE RIVER	123,446,547	36,840,069	51,705,360
107C	MCALLISTER, W	HARDWICK	10.5	7.2	LAMOILLE RIVER	LAMOILLE RIVER	123,446,547	36,840,069	51,705,360
107D	MCALLISTER, W	HARDWICK	9.8	7.6	LAMOILLE RIVER	LAMOILLE RIVER	122,212,082	36,471,668	51,188,306
108A	BEAN	PEACHAM	10.9	8.7	HOOKER BROOK	BROWNINGTON BRANCH	1,801,932	123,059	404,336
108C	BEAN	PEACHAM	14.8	10.8	HOOKER BROOK	BROWNINGTON BRANCH	1,801,932	123,059	404,336
108D	BEAN	PEACHAM	14	7	HOOKER BROOK	BROWNINGTON BRANCH	1,801,932	123,059	404,336
108E	BEAN	PEACHAM	7.9	6.8	HOOKER BROOK	BROWNINGTON BRANCH	1,801,932	123,059	404,336
108F	BEAN	PEACHAM	11.2	8.9	HOOKER BROOK	BROWNINGTON BRANCH	1,801,932	123,059	404,336
109A	BLOCK	HARDWICK	5.1	3.4	LAMOILLE RIVER	N. BR. WINOOSKI RIVER	104,527,556	9,824,018	24,363,566
109B	BLOCK	HARDWICK	34.5	30.9	LAMOILLE RIVER	N. BR. WINOOSKI RIVER	104,527,556	9,824,018	24,363,566

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110A	SPRAGUES	RANDOLPH	20	19.5	HALFWAY BROOK	E. ORANGE BRANCH	14,591,253	1,158,717	2,789,504
110B	SPRAGUES	RANDOLPH	34.2	33.9	SECOND BRANCH WHITE RIVER	AYERS BROOK	38,777,081	4,985,625	14,402,916
110C	SPRAGUES	BROOKFIELD	9.5	9.2	SECOND BRANCH WHITE RIVER	AYERS BROOK	33,782,343	4,343,444	12,547,728
110D	SPRAGUES	BROOKFIELD	7.8	7.2	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110E	SPRAGUES	BROOKFIELD	6	5.2	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110F	SPRAGUES	BROOKFIELD	3.1	2.3	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110G	SPRAGUES	BROOKFIELD	4.1	3.6	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110H	SPRAGUES	BROOKFIELD	8.7	8.4	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110I	SPRAGUES	BROOKFIELD	8.1	7.8	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110J	SPRAGUES	BROOKFIELD	7.7	6.5	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110K	SPRAGUES	BROOKFIELD	6.2	5.1	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
110L	SPRAGUES	BROOKFIELD	2.3	1.7	SECOND BRANCH WHITE RIVER	SACKETTS BROOK	17,124,815	1,997,895	6,992,633
111A	RICHARDSON	WALDEN	8.9	8.1	STANNARD BROOK	E. ORANGE BRANCH	19,711,376	1,565,315	3,768,351
111B	RICHARDSON	WALDEN	4.2	4	STANNARD BROOK	E. ORANGE BRANCH	14,481,379	1,149,992	2,768,499
111C	RICHARDSON	WALDEN	9.2	9	STANNARD BROOK	E. ORANGE BRANCH	14,481,379	1,149,992	2,768,499
111D	RICHARDSON	STANNARD	7.1	7.1	STANNARD BROOK TRIBUTARY	SUNNY BROOK	2,348,393	125,062	666,999
113A	DIMICK	HARDWICK	12.7	12.7	LAMOILLE RIVER	LAMOILLE RIVER	43,576,631	13,004,544	18,251,992
114A	ROYER	BARTON	6.2	3.2	BARTON RIVER	BLACK RIVER	117,970,949	29,492,737	42,315,667

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114C	ROYER	IRASBURG	14.8	8.9	BARTON RIVER	BLACK RIVER	117,970,949	29,492,737	42,315,667
114D	ROYER	BARTON	8.8	8.3	WILLOUGHBY RIVER	N. BR. WINOOSKI RIVER	77,020,304	7,238,750	17,952,101
114E	ROYER	BARTON	1.1	0.9	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114F	ROYER	BARTON	10.1	10	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114G	ROYER	BARTON	8.7	8.7	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114H	ROYER	BARTON	1.2	1.2	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114I	ROYER	BARTON	2.6	2.6	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114J	ROYER	BARTON	9.5	8.7	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114K	ROYER	BARTON	4.6	4.6	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114L	ROYER	BARTON	4.2	3.3	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114M	ROYER	BARTON	1.7	1.7	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114N	ROYER	BARTON	1.7	1.7	WILLOUGHBY RIVER TRIBUTARY	SUNNY BROOK	2,545,002	135,533	722,841
114R	ROYER	IRASBURG	33.4	27.1	BARTON RIVER TRIBUTARY	BLACK RIVER	117,970,949	29,492,737	42,315,667
114S	ROYER	IRASBURG	13.9	11.4	BARTON RIVER TRIBUTARY	BLACK RIVER	117,970,949	29,492,737	42,315,667
114T	ROYER	IRASBURG	29.3	27.3	BARTON RIVER TRIBUTARY	BLACK RIVER	117,970,949	29,492,737	42,315,667
116A	LYON	BARTON	27.8	23	BARTON RIVER TRIBUTARY	BLACK RIVER	42,930,960	10,732,740	15,399,149
117A	YOUNG	GLOVER	13.7	11.4	ROARING BROOK	E. BRANCH ORANGE	20,084,947	1,594,981	3,839,769
117B	YOUNG	GLOVER	31.9	24.5	UNNAMED STREAM	BROWNINGTON BRANCH	503,481	34,384	112,976

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117C	YOUNG	GLOVER	15.2	14	UNNAMED STREAM	BROWNINGTON BRANCH	503,481	34,384	112,976
118A	LANPHEAR	MORRISTOWN	5.3	4.8	UNNAMED STREAM	METTAWEE RIVER TRIB.	1,142,042	96,172	745,333
118B	LANPHEAR	MORRISTOWN	3.9	3.9	UNNAMED STREAM	METTAWEE RIVER TRIB.	1,142,042	96,172	745,333
118C	LANPHEAR	MORRISTOWN	10.4	9.3	RYDER BROOK	SACKETTS BROOK	20,009,974	2,334,497	8,170,740
118D	LANPHEAR	MORRISTOWN	11.2	10.4	RYDER BROOK	SACKETTS BROOK	20,009,974	2,334,497	8,170,740
118E	LANPHEAR	MORRISTOWN	9.7	8.3	RYDER BROOK	SACKETTS BROOK	19,389,510	2,262,110	7,917,383
118F	LANPHEAR	MORRISTOWN	11	10.4	RYDER BROOK	SACKETTS BROOK	18,613,930	2,171,625	7,600,688
119B	DUNBAR	CRAFTSBURY	20	20	BLACK RIVER	SACKETTS BROOK	20,940,671	2,443,078	8,550,774
119C	DUNBAR	CRAFTSBURY	17.7	9.6	BLACK RIVER	SACKETTS BROOK	19,854,858	2,316,400	8,107,400
119D	DUNBAR	CRAFTSBURY	5.4	4.1	BLACK RIVER	SACKETTS BROOK	19,854,858	2,316,400	8,107,400
120A	LERICHE	WOLCOTT	17.2	17.1	LAMOILLE RIVER	LAMOILLE RIVER	218,870,728	65,317,442	91,673,603
120B	LERICHE	WOLCOTT	20.9	20.7	LAMOILLE RIVER	LAMOILLE RIVER	218,870,728	65,317,442	91,673,603
120C	LERICHE	WOLCOTT	7.1	7	LAMOILLE RIVER	LAMOILLE RIVER	218,870,728	65,317,442	91,673,603
120D	LERICHE	WOLCOTT	3.6	3.6	LAMOILLE RIVER	LAMOILLE RIVER	218,870,728	65,317,442	91,673,603
120E	LERICHE	WOLCOTT	5.3	5.3	LAMOILLE RIVER	LAMOILLE RIVER	218,870,728	65,317,442	91,673,603
120F	LERICHE	WOLCOTT	20.6	20.6	WOLCOTT POND BROOK	BROWNINGTON BRANCH	3,948,351	192,602	885,971
120G	LERICHE	WOLCOTT	16.7	16.1	WOLCOTT POND BROOK	BROWNINGTON BRANCH	3,948,351	192,602	885,971
121A	LEBLANC	BARTON	25.2	24.1	BARTON RIVER	BLACK RIVER	84,672,698	21,168,174	30,371,728

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122A	MACLAREN	PLAINFIELD	20.2	20.1	GREAT BROOK	AYERS BROOK	19,001,720	2,443,078	7,057,782
122B	MACLAREN	PLAINFIELD	8.6	6.2	GREAT BROOK	AYERS BROOK	19,001,720	2,443,078	7,057,782
122C	MACLAREN	PLAINFIELD	5.4	4.6	GREAT BROOK	AYERS BROOK	19,001,720	2,443,078	7,057,782
122D	MACLAREN	PLAINFIELD	2.5	2.1	GREAT BROOK	AYERS BROOK	19,001,720	2,443,078	7,057,782
122E	MACLAREN	PLAINFIELD	11.1	7.6	GREAT BROOK	AYERS BROOK	19,001,720	2,443,078	7,057,782
123A	OLCOTT	ST JOHNSBURY	11.9	11.3	MOOSE RIVER	MOOSE RIVER	201,429,864	38,065,486	52,340,043
123B	OLCOTT	ST JOHNSBURY	11.8	6.9	MOOSE RIVER	MOOSE RIVER	201,429,864	38,065,486	52,340,043
123C	OLCOTT	ST JOHNSBURY	5.8	4.2	UNNAMED STREAM	STONY BROOK	12,316,863	2,249,829	4,080,199
123D	OLCOTT	ST JOHNSBURY	6.2	5.2	UNNAMED STREAM	STONY BROOK	12,316,863	2,249,829	4,080,199
124A	HAM	SHEFFIELD	15.7	9.2	MILLERS RUN	AYERS BROOK	34,746,002	4,467,343	12,905,658
124B	HAM	SHEFFIELD	5.4	3.2	MILLERS RUN	AYERS BROOK	34,746,002	4,467,343	12,905,658
124C	HAM	SHEFFIELD	7.8	3.1	MILLERS RUN	AYERS BROOK	34,746,002	4,467,343	12,905,658
125A	PIERCE	SHEFFIELD	3.4	2.1	MILLERS RUN	AYERS BROOK	20,630,439	2,652,485	7,662,734
125B	PIERCE	SHEFFIELD	6	5.9	MILLERS RUN	AYERS BROOK	20,630,439	2,652,485	7,662,734
126A	MACLURE	BARTON	23.3	18.1	UNNAMED STREAM	BROWNINGTON BRANCH	1,324,950	64,632	297,306
126B	MACLURE	BARTON	24.8	22.9	BARTON RIVER	BLACK RIVER	92,640,494	23,160,123	33,229,742
126C	MACLURE	BARTON	10.9	10.9	BARTON RIVER	BLACK RIVER	92,640,494	23,160,123	33,229,742
127A	YOUNG	CRAFTSBURY	19.9	18.3	BLACK RIVER	BLACK RIVER	48,401,387	12,100,347	17,361,367

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128A	BEAUDOIN	SHEFFIELD	4	3.9	MILLERS RUN	AYERS BROOK	37,731,986	4,851,255	14,014,738
129A	BEDOR	SHEFFIELD	8.7	8.5	SQUARE BROOK	STONY BROOK	8,767,936	1,601,574	2,904,549
129B	BEDOR	SHEFFIELD	6.4	6.1	SQUARE BROOK	STONY BROOK	8,767,936	1,601,574	2,904,549
130A	THOMPSON	SHEFFIELD	7.1	6.3	MILLERS RUN	AYERS BROOK	37,731,986	4,851,255	14,014,738
131A	RUSSELL	BARTON	19.9	18	UNNAMED STREAM	BROWNINGTON BROOK	2,782,395	135,727	624,342
132A	KOPECKY	MARSHFIELD	27.7	25.6	NASMITH BROOK	E ORANGE BRANCH	25,710,490	2,041,715	4,915,241
132B	KOPECKY	MARSHFIELD	13.5	8.9	UNNAMED STREAM	BROWNINGTON BRANCH	662,475	32,316	148,653
133A	SILVER	GREENSBORO	4.4	3.9	LAMOILLE RIVER	LAMOILLE RIVER	41,971,826	12,525,623	17,579,822
133B	SILVER	GREENSBORO	10.4	5.6	LAMOILLE RIVER	LAMOILLE RIVER	41,971,826	12,525,623	17,579,822
133C	SILVER	GREENSBORO	9.1	7.9	LAMOILLE RIVER	LAMOILLE RIVER	41,971,826	12,525,623	17,579,822
134A	GOULD	LYNDON	12.3	6.5	FALL BROOK	STONY BROOK	7,515,374	1,372,777	2,489,613
134B	GOULD	LYNDON	20.4	6.8	FALL BROOK	STONY BROOK	7,515,374	1,372,777	2,489,613
134C	GOULD	LYNDON	4.5	3.1	FALL BROOK	STONY BROOK	7,515,374	1,372,777	2,489,613
135A	DRAPER	ELMORE	6.6	5.5	UNNAMED STREAM	BROWNINGTON BRANCH	1,457,445	71,095	327,036
135B	DRAPER	ELMORE	5.5	3.4	UNNAMED STREAM	BROWNINGTON BRANCH	1,457,445	71,095	327,036
135C	DRAPER	ELMORE	4	1.3	UNNAMED STREAM	BROWNINGTON BRANCH	1,457,445	71,095	327,036
136A	LACASSE	ELMORE	20	7.4	UNNAMED STREAM	BROWNINGTON BRANCH	1,059,960	51,705	237,845
136B	LACASSE	ELMORE	12.7	12	UNNAMED STREAM	BROWNINGTON BRANCH	1,987,425	96,948	445,959

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137A	ROGERS	GLOVER	11.3	6	BARTON RIVER	E ORANGE BRANCH	10,987,389	872,528	2,100,530
142A	SHATNEY	GREENSBORO	25.2	24.2	PAINE BROOK	BROWNINGTON BRANCH	1,806,456	84,021	386,498
142B	SHATNEY	GREENSBORO	12.1	12.1	SAWMILL BROOK	BROWNINGTON BRANCH	2,501,247	116,337	535,150
144A	SIMMER	BARNET	25.6	25.6	PASSUMPSIC RIVER	PASSUMPSIC RIVER	721,393,183	87,356,206	143,715,048
144B	SIMMER	BARNET	7.5	6.8	PASSUMPSIC RIVER	PASSUMPSIC RIVER	721,393,183	87,356,206	143,715,048
144C	SIMMER	BARNET	17	16.6	PASSUMPSIC RIVER	PASSUMPSIC RIVER	721,393,183	87,356,206	143,715,048
144D	SIMMER	BARNET	11.4	11.3	PASSUMPSIC RIVER	PASSUMPSIC RIVER	721,393,183	87,356,206	143,715,048
145B	LACASSE	ELMORE	9.4	9.2	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
145C	LACASSE	ELMORE	3.9	3.6	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
145E	LACASSE	ELMORE	4	2.1	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
145F	LACASSE	ELMORE	4.4	4.2	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
145H	LACASSE	ELMORE	10.5	10.5	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
145I	LACASSE	ELMORE	27	27	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
145J	LACASSE	ELMORE	33.3	24.9	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
145K	LACASSE	ELMORE	19.6	19.6	UNNAMED STREAM	BROWNINGTON BROOK	2,649,900	129,263	594,612
146A	KEMPTON	PEACHAM	4.9	4.8	UNNAMED STREAM	SUNNY BROOK	2,403,007	127,971	682,511
146C	KEMPTON	PEACHAM	11.1	11.1	UNNAMED STREAM	SUNNY BROOK	2,403,007	127,971	682,511
146D	KEMPTON	PEACHAM	4.4	4.3	UNNAMED STREAM	SUNNY BROOK	2,403,007	127,971	682,511

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FIELD #	OWNER	TOWN	TOTAL ACRES	USABLE ACRES	RECEIVING STREAM	COMPARABLE STREAM	SPRING LMMF (GPD)	SUMMER LMMF (GPD)	WINTER LMMF (GPD)
146E	KEMPTON	PEACHAM	9.3	9.3	UNNAMED STREAM	SUNNY BROOK	2,403,007	127,971	682,511
146F	KEMPTON	PEACHAM	3.8	3.15	UNNAMED STREAM	SUNNY BROOK	2,403,007	127,971	682,511
146G	KEMPTON	PEACHAM	9	9	UNNAMED STREAM	SUNNY BROOK	2,403,007	127,971	682,511
146I	KEMPTON	PEACHAM	14	13.8	SOUTH PEACHAM BROOK	STONY BROOK	6,680,333	1,220,246	2,212,989
146L	KEMPTON	PEACHAM	8.8	8.8	SOUTH PEACHAM BROOK	STONY BROOK	6,680,333	1,220,246	2,212,989
147A	MARCEAU	PEACHAM	3.3	3	PEACHAM BROOK	LEWIS CREEK	6,331,321	400,717	1,883,368
147B	MARCEAU	PEACHAM	6	6	PEACHAM BROOK	LEWIS CREEK	6,331,321	400,717	1,883,368
147C	MARCEAU	PEACHAM	7	5	PEACHAM BROOK	LEWIS CREEK	6,331,321	400,717	1,883,368
147D	MARCEAU	PEACHAM	22	15.8	PEACHAM BROOK	LEWIS CREEK	6,331,321	400,717	1,883,368
148B	CONLEY	GLOVER	3.7	3.6	UNNAMED STREAM	BROWNINGTON BRANCH	132,495	6,463	29,731
148C	CONLEY	GLOVER	7.7	6.7	UNNAMED STREAM	BROWNINGTON BRANCH	132,495	6,463	29,731
148D	CONLEY	GLOVER	2.1	2.1	BARTON RIVER	STEVENS RIVER	35,596,555	3,673,666	6,460,585
148E	CONLEY	GLOVER	1.9	1.9	BARTON RIVER	STEVENS RIVER	35,596,555	3,673,666	6,460,585
151C	FORD	SHEFFIELD	2.5	2.5	SQUARE BROOK	STONY BROOK	8,767,936	1,601,574	2,904,549
152B	SIMONS	SHEFFIELD	7.5	4.6	UNNAMED STREAM	BROWNINGTON BROOK	1,192,455	58,169	267,575
153D	GARDNER	SHEFFIELD	7.9	5.3	SQUARE BROOK	STONY BROOK	8,767,936	1,601,574	2,904,549
154A	PERCY	STOWE	41.1	32.1	MOSS GLEN BROOK	E. ORANGE BRANCH	19,337,805	1,535,649	3,696,933
154B	PERCY	STOWE	27.9	25.8	MOSS GLEN BROOK	E. ORANGE BRANCH	19,337,805	1,535,649	3,696,933

Agri-Mark dba Cabot Creamery
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Attachment A-1

FIELD #	OWNER	TOWN	TOTAL ACRES	USABLE ACRES	RECEIVING STREAM	COMPARABLE STREAM	SPRING LMMF (GPD)	SUMMER LMMF (GPD)	WINTER LMMF (GPD)
154C	PERCY	STOWE	29.2	28.4	MOSS GLEN BROOK	E. ORANGE BRANCH	19,337,805	1,535,649	3,696,933
155A	ALLAIRE	HARDWICK	15	13.1	PORTER BROOK	STONY BROOK	9,394,218	1,715,972	3,112,016
155B	ALLAIRE	HARDWICK	3.5	2	PORTER BROOK	STONY BROOK	9,394,218	1,715,972	3,112,016
155C	ALLAIRE	HARDWICK	6.6	6	PORTER BROOK	STONY BROOK	9,394,218	1,715,972	3,112,016
156A	PATTERSON	DANVILLE	11.8	10.2	BURROUGHS BROOK	SACKETTS BROOK	19,854,858	2,316,400	8,107,400
156B	PATTERSON	DANVILLE	17.2	17.2	BURROUGHS BROOK	SACKETTS BROOK	19,854,858	2,316,400	8,107,400
156C	PATTERSON	DANVILLE	17.4	17.4	BURROUGHS BROOK	SACKETTS BROOK	19,854,858	2,316,400	8,107,400
156D	PATTERSON	DANVILLE	16.6	11.3	BURROUGHS BROOK	SACKETTS BROOK	19,854,858	2,316,400	8,107,400

**Agri-Mark dba Cabot Creamery
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Attachment A-2

FIELD NUMBER	APPL. CODE	ACRES	MAXIMUM DAILY FIELD APPLICATION (gpd)						ANNUAL LIMIT (gal./year)
			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
001A	YR	2.7	9,531	18,328	15,007	9,531	9,531	9,531	73,310
001B	S	0.7	0	4,752	4,752	0	0	0	19,006
001B	SF	5	0	33,940	33,940	17,650	17,650	0	135,760
001D	SF	9.7	0	65,844	50,801	34,241	34,241	0	263,374
001D	YR	5.4	19,062	36,655	36,655	19,062	19,062	19,062	146,621
001E	SF	12.4	0	84,171	41,752	41,752	43,772	0	336,685
001E	YR	5.2	18,356	35,298	35,298	18,356	18,356	18,356	141,190
001F	SF	19.5	0	132,366	14,542	14,542	68,835	0	529,464
001G	S	1.4	0	9,503	9,503	0	0	0	38,013
001G	SF	1.3	0	8,824	8,824	4,589	4,589	0	35,298
001H	S	2.9	0	19,685	17,922	0	0	0	78,741
001H	SF	20.5	0	98,117	17,922	17,922	32,503	0	556,616
009A	V-YR	4.5	15,885	30,546	4,072	4,072	15,885	15,885	61,092
011A	SF	4.5	0	30,546	30,546	15,885	15,885	0	122,184
011A	YR	7.9	27,887	53,625	53,625	27,887	27,887	27,887	214,501
011B	V-YR	7.2	25,416	48,874	10,470	10,470	25,416	25,416	97,747
011C	V-S	1.4	0	9,503	9,503	0	0	0	38,013
011C	V-SF	12.7	0	86,208	86,208	44,831	44,831	0	344,830
011D	S	2.3	0	15,612	15,612	0	0	0	62,450
011D	SF	11.7	0	79,420	79,420	41,301	41,301	0	317,678
011D	YR	2.7	9,531	18,328	18,328	9,531	9,531	9,531	73,310
011E	SF	7.5	0	50,910	50,910	26,475	26,475	0	203,640
011E	YR	3.4	12,002	23,079	23,079	12,002	12,002	12,002	92,317
011F	S	1.1	0	7,467	7,467	0	0	0	29,867
011F	SF	11.3	0	76,704	76,704	39,889	39,889	0	306,818
011G	YR	5.3	18,709	35,976	35,976	18,709	18,709	18,709	143,906
017A	S	8.2	0	55,662	6,050	0	0	0	222,646
017B	S	3.9	0	26,473	26,473	0	0	0	105,893

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
017B	SF	9.9	0	67,201	41,183	34,947	34,947	0	268,805
017B	YR	3.7	13,061	25,116	25,116	13,061	13,061	13,061	100,462
017C	SF	1.7	0	11,540	8,144	6,001	6,001	0	46,158
017C	YR	5.8	20,474	39,370	8,144	8,144	20,474	20,474	157,482
017D	V-YR	6.4	22,592	43,443	8,144	8,144	22,592	22,592	86,886
023A	YR	7.5	26,475	50,910	3,141	3,141	16,753	16,753	203,640
023B	SF	1.7	0	11,540	3,025	3,025	6,001	0	46,158
023B	YR	10.7	37,771	56,798	3,025	3,025	16,132	16,132	290,526
023D	YR	10.1	35,653	56,798	3,025	3,025	16,132	16,132	274,235
023F	S	4.6	0	31,225	3,025	0	0	0	124,899
023F	SF	3.7	0	25,116	3,025	3,025	13,061	0	100,462
025A	YR	19	67,070	128,972	8,085	8,085	43,122	43,122	515,888
025B	YR	3.9	13,767	26,473	8,085	8,085	13,767	13,767	105,893
025C	S	5.8	0	39,370	6,806	0	0	0	157,482
033B	YR	4.2	14,826	28,510	28,510	14,826	14,826	14,826	114,038
033C	SF	6.9	0	46,837	46,837	24,357	24,357	0	187,349
033D	S	4.9	0	33,261	33,261	0	0	0	133,045
043A	YR	12.4	43,772	84,171	17,625	17,625	43,772	43,772	336,685
048A	YR	6.4	22,592	43,443	43,443	22,592	22,592	22,592	173,773
050C	SF	7.7	0	52,268	17,922	17,922	27,181	0	209,070
050C	YR	8.2	28,946	55,662	17,922	17,922	28,946	28,946	222,646
050D	SF	3.5	0	23,758	17,922	12,355	12,355	0	95,032
050D	YR	4.8	16,944	32,582	17,922	16,944	16,944	16,944	130,330
050E	SF	12	0	81,456	17,922	17,922	32,503	0	325,824
050E	YR	20.8	73,424	98,117	17,922	17,922	32,503	32,503	564,762
050H	V-S	11.4	0	77,383	77,383	0	0	0	309,533
050H	V-SF	19.7	0	133,724	133,724	69,541	69,541	0	534,894
052A	YR	14.9	52,597	101,141	91,712	52,597	52,597	52,597	404,565

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FIELD NUMBER	APPL. CODE	ACRES	MAXIMUM DAILY FIELD APPLICATION (gpd)						ANNUAL LIMIT (gal./year)
			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
052B	YR	8.7	30,711	59,056	59,056	30,711	30,711	30,711	236,222
052C	YR	5.8	20,474	39,370	39,370	20,474	20,474	20,474	157,482
052F	S	2.8	0	19,006	19,006	0	0	0	76,026
054A	YR	28.3	99,899	192,100	137,659	99,899	99,899	99,899	768,402
054D	SF	15.8	0	107,250	107,250	55,774	55,774	0	429,002
054D	YR	2.6	9,178	17,649	17,649	9,178	9,178	9,178	70,595
054E	SF	2.4	0	16,291	16,291	8,472	8,472	0	65,165
054E	YR	11.1	39,183	75,347	75,347	39,183	39,183	39,183	301,387
054F	S	2.1	0	14,255	14,255	0	0	0	57,019
054F	SF	9.5	0	64,486	64,486	33,535	33,535	0	257,944
054F	V-YR	0.6	2,118	4,073	4,073	2,118	2,118	2,118	8,146
054F	YR	10.2	36,006	69,238	69,238	36,006	36,006	36,006	276,950
060J	YR	18.2	64,246	123,542	123,542	64,246	64,246	64,246	494,166
060L	YR	13	45,890	87,382	5,171	5,171	24,819	24,819	352,976
060O	YR	4.4	15,532	29,867	8,208	8,208	15,532	15,532	119,469
062D	SF	10.1	0	68,559	17,922	17,922	32,503	0	274,235
063A	SF	9.6	0	65,165	4,886	4,886	26,060	0	260,659
063B	S	45.8	0	54,614	2,908	0	0	0	1,243,562
065A	V-SF	1	0	6,788	6,788	3,530	3,530	0	27,152
065A	YR	9.9	34,947	67,201	67,201	34,947	34,947	34,947	268,805
065B	SF	3.3	0	22,400	22,400	11,649	11,649	0	89,602
065B	V-SF	2	0	13,576	13,576	7,060	7,060	0	54,304
065B	YR	20.8	73,424	141,190	141,190	73,424	73,424	73,424	564,762
065D	S	3.3	0	22,400	2,734	0	0	0	89,602
065D	YR	7.8	27,534	51,337	2,734	2,734	14,581	14,581	211,786
065E	S	1.5	0	10,182	10,182	0	0	0	40,728
065E	SF	13.2	0	89,602	89,602	46,596	46,596	0	358,406

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FIELD NUMBER	APPL. CODE	ACRES	MAXIMUM DAILY FIELD APPLICATION (gpd)						ANNUAL LIMIT (gal./year)
			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
065E	YR	16.6	58,598	112,681	112,681	58,598	58,598	58,598	450,723
065F	SF	1.3	0	8,824	8,824	4,589	4,589	0	35,298
065F	V-YR	1.5	5,295	10,182	10,182	5,295	5,295	5,295	20,364
065F	YR	1.7	6,001	11,540	11,540	6,001	6,001	6,001	46,158
065G	SF	8.3	0	56,340	4,130	4,130	22,026	0	225,362
065G	V-SF	7.7	0	52,268	4,130	4,130	22,026	0	209,070
065G	YR	5.5	19,415	37,334	4,130	4,130	19,415	19,415	149,336
065H	SF	7.4	0	50,231	4,130	4,130	22,026	0	200,925
066G	V-YR	9.7	34,241	65,844	65,844	34,241	34,241	34,241	131,687
066H	SF	11.2	0	76,026	76,026	39,536	39,536	0	304,102
066H	YR	10	35,300	67,880	67,880	35,300	35,300	35,300	271,520
070A	S	1	0	6,788	6,788	0	0	0	27,152
070A	SF	4.1	0	27,831	27,831	14,473	14,473	0	111,323
070A	YR	1.5	5,295	10,182	10,182	5,295	5,295	5,295	40,728
070B	YR	7.9	27,887	53,625	53,625	27,887	27,887	27,887	214,501
070C	SF	3.3	0	22,400	22,400	11,649	11,649	0	89,602
070D	SF	4.5	0	30,546	30,546	15,885	15,885	0	122,184
070F	S	1.5	0	10,182	10,182	0	0	0	40,728
070F	SF	13.7	0	92,996	92,996	48,361	48,361	0	371,982
071A	V-SF	9.1	0	61,771	7,155	7,155	32,123	0	247,083
071B	V-S	9.7	0	65,844	17,922	0	0	0	263,374
071C	V-S	7.2	0	48,874	17,922	0	0	0	195,494
071D	SF	8.2	0	55,662	17,922	17,922	28,946	0	222,646
071E	SF	3.2	0	21,722	17,922	11,296	11,296	0	86,886
071F	V-S	5.1	0	34,619	17,922	0	0	0	138,475
071G	SF	10.7	0	72,632	16,345	16,345	37,771	0	290,526
071H	SF	4.1	0	27,831	20,708	14,473	14,473	0	111,323

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FIELD NUMBER	APPL. CODE	ACRES	MAXIMUM DAILY FIELD APPLICATION (gpd)						ANNUAL LIMIT (gal./year)
			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
071K	SF	3.2	0	21,722	20,708	11,296	11,296	0	86,886
071K	YR	3.8	13,414	25,794	20,708	13,414	13,414	13,414	103,178
071L	SF	6.4	0	43,443	19,448	19,448	22,592	0	173,773
071M	S	8.1	0	54,983	16,345	0	0	0	219,931
073A	S	1	0	6,788	6,788	0	0	0	27,152
073A	SF	3.8	0	25,794	17,922	13,414	13,414	0	103,178
073A	YR	15.4	54,362	98,117	17,922	17,922	32,503	32,503	418,141
073B	SF	3.7	0	25,116	17,922	13,061	13,061	0	100,462
073B	V-SF	1.1	0	7,467	7,467	3,883	3,883	0	29,867
073C	V-YR	2.6	9,178	17,649	17,649	9,178	9,178	9,178	35,298
073C	YR	32.1	98,117	98,117	17,922	17,922	32,503	32,503	871,579
073D	V-YR	4.8	16,944	32,582	16,229	16,229	16,944	16,944	65,165
073D	YR	3.4	12,002	23,079	16,229	12,002	12,002	12,002	92,317
073E	SF	1.1	0	7,467	7,467	3,883	3,883	0	29,867
073E	V-YR	6.7	23,651	45,480	16,229	16,229	23,651	23,651	90,959
073E	YR	11.8	41,654	80,098	16,229	16,229	41,654	41,654	320,394
073F	SF	0.2	0	1,358	1,358	706	706	0	5,430
073F	YR	3.7	13,061	25,116	16,229	13,061	13,061	13,061	100,462
073G	SF	4.1	0	27,831	16,229	14,473	14,473	0	111,323
073G	YR	0.9	3,177	6,109	6,109	3,177	3,177	3,177	24,437
073H	YR	4.3	15,179	29,188	16,229	15,179	15,179	15,179	116,754
073I	YR	1.5	5,295	10,182	10,182	5,295	5,295	5,295	40,728
073J	V-YR	11.2	39,536	76,026	12,681	12,681	39,536	39,536	152,051
073K	V-YR	18.4	64,952	98,117	17,922	17,922	32,503	32,503	249,798
074A	V-YR	2.9	10,237	19,685	19,685	10,237	10,237	10,237	39,370
074B	V-SF	16.6	0	112,681	24,405	24,405	44,260	0	450,723
074B	V-YR	9.5	33,535	64,486	24,405	24,405	33,535	33,535	128,972

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FIELD NUMBER	APPL. CODE	ACRES	MAXIMUM DAILY FIELD APPLICATION (gpd)						ANNUAL LIMIT (gal./year)
			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
074C	V-YR	4	14,120	27,152	24,405	14,120	14,120	14,120	54,304
074D	V-SF	10.1	0	68,559	17,922	17,922	32,503	0	274,235
075A	V-S	0.4	0	2,715	2,715	0	0	0	10,861
075A	V-SF	6.6	0	44,801	44,801	23,298	23,298	0	179,203
075A	YR	3.1	10,943	21,043	21,043	10,943	10,943	10,943	84,171
075B	SF	3.8	0	25,794	25,794	13,414	13,414	0	103,178
075B	V-S	0.7	0	4,752	4,752	0	0	0	19,006
075B	V-SF	11.5	0	78,062	78,062	40,595	40,595	0	312,248
075B	V-YR	6.3	22,239	42,764	42,764	22,239	22,239	22,239	85,529
077A	S	29.7	0	201,604	11,343	0	0	0	806,414
077A	SF	9.6	0	65,165	11,343	11,343	33,888	0	260,659
077A	YR	10.1	35,653	68,559	11,343	11,343	35,653	35,653	274,235
078A	V-S	0.6	0	4,073	4,073	0	0	0	16,291
078A	V-SF	2.5	0	16,970	16,970	8,825	8,825	0	67,880
078A	V-YR	19.1	67,423	129,651	129,651	67,423	67,423	67,423	259,302
078B	V-S	1.1	0	7,467	7,467	0	0	0	29,867
078B	V-YR	10.4	36,712	70,595	70,595	36,712	36,712	36,712	141,190
078C	V-S	15.6	0	105,893	105,893	0	0	0	423,571
078C	V-YR	10.2	36,006	69,238	69,238	36,006	36,006	36,006	138,475
078D	S	19.6	0	133,045	133,045	0	0	0	532,179
080A	V-SF	13.9	0	94,353	17,922	17,922	32,503	0	377,413
080A	YR	1.3	4,589	8,824	8,824	4,589	4,589	4,589	35,298
080B	S	2.8	0	19,006	17,922	0	0	0	76,026
080B	SF	6.5	0	44,122	17,922	17,922	22,945	0	176,488
080B	V-S	5	0	33,940	17,922	0	0	0	135,760
080C	V-S	8.4	0	57,019	44,615	0	0	0	228,077
080C	V-SF	7.5	0	50,910	44,615	26,475	26,475	0	203,640

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
080D	V-SF	19.2	0	130,330	44,615	44,615	67,776	0	521,318
080E	SF	9.4	0	63,807	17,922	17,922	32,503	0	255,229
084D	SF	1.5	0	10,182	10,182	5,295	5,295	0	40,728
084D	YR	2	7,060	13,576	13,576	7,060	7,060	7,060	54,304
084E	YR	6.1	21,533	41,407	41,407	21,533	21,533	21,533	165,627
084F	V-SF	9.1	0	61,771	61,771	32,123	32,123	0	247,083
085A	V-YR	11.68	41,230	79,284	79,284	41,230	41,230	41,230	158,568
086A	V-YR	26.8	94,604	181,918	82,748	82,748	94,604	94,604	363,837
086B	V-YR	6.6	23,298	44,801	44,801	23,298	23,298	23,298	89,602
086C	V-YR	8.4	29,652	57,019	57,019	29,652	29,652	29,652	114,038
086D	V-YR	12.3	43,419	83,492	82,748	43,419	43,419	43,419	166,985
086E	V-YR	11.1	39,183	75,347	75,347	39,183	39,183	39,183	150,694
086F	S	1.5	0	10,182	10,182	0	0	0	40,728
086F	SF	12.1	0	82,135	82,135	42,713	42,713	0	328,539
087A	YR	3.9	13,767	26,473	26,473	13,767	13,767	13,767	105,893
087B	V-SF	13.6	0	92,317	29,362	29,362	48,008	0	369,267
087C	V-SF	5.4	0	36,655	29,362	19,062	19,062	0	146,621
087D	YR	13	45,890	88,244	29,362	29,362	45,890	45,890	352,976
087E	V-S	10.8	0	73,310	73,310	0	0	0	293,242
087F	S	10.8	0	73,310	73,310	0	0	0	293,242
088A	YR	9.8	34,594	66,522	29,362	29,362	34,594	34,594	266,090
088B	YR	14.7	51,891	99,784	29,362	29,362	51,891	51,891	399,134
088C	SF	6	0	40,728	40,728	21,180	21,180	0	162,912
088C	YR	15.9	56,127	107,929	82,748	56,127	56,127	56,127	431,717
088D	SF	2.6	0	17,649	17,649	9,178	9,178	0	70,595
088D	YR	28.8	101,664	195,494	82,748	82,748	101,664	101,664	781,978
088E	V-YR	15.8	55,774	107,250	49,954	49,954	55,774	55,774	429,002

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
088F	SF	15.3	0	103,856	82,748	54,009	54,009	0	415,426
088G	V-S	0.6	0	4,073	4,073	0	0	0	16,291
088G	V-SF	1.3	0	8,824	8,824	4,589	4,589	0	35,298
088G	V-YR	7	24,710	47,516	47,516	24,710	24,710	24,710	95,032
088H	V-S	6.1	0	41,407	41,407	0	0	0	82,814
088H	V-YR	3.1	10,943	21,043	21,043	10,943	10,943	10,943	42,086
088K	V-SF	0.5	0	3,394	3,394	1,765	1,765	0	13,576
088K	V-YR	11.1	39,183	75,347	75,347	39,183	39,183	39,183	150,694
088K	YR	14	49,420	95,032	82,748	49,420	49,420	49,420	380,128
091A	V-SF	1.6	0	10,861	10,861	5,648	5,648	0	43,443
091A	V-YR	22.5	79,425	152,730	152,730	79,425	79,425	79,425	305,460
091B	V-S	0.6	0	4,073	4,073	0	0	0	16,291
091B	V-YR	5.1	18,003	34,619	34,619	18,003	18,003	18,003	69,238
091C	YR	3.5	12,355	23,758	23,758	12,355	12,355	12,355	95,032
091D	V-YR	11.5	40,595	78,062	78,062	40,595	40,595	40,595	156,124
091E	V-SF	21.8	0	147,978	147,978	76,954	76,954	0	591,914
091E	V-YR	13.9	49,067	94,353	94,353	49,067	49,067	49,067	188,706
095E	V-S	2	0	13,576	4,363	0	0	0	54,304
095E	V-SF	7.7	0	52,268	4,363	4,363	23,267	0	209,070
095E	V-YR	23.6	81,921	81,921	4,363	4,363	23,267	23,267	320,394
095F	V-S	0.5	0	3,394	3,394	0	0	0	13,576
095F	V-SF	0.5	0	3,394	3,394	1,765	1,765	0	13,576
095F	V-YR	9.6	33,888	65,165	4,363	4,363	23,267	23,267	130,330
096A	SF	2.4	0	16,291	16,291	8,472	8,472	0	65,165
096A	V-YR	1.2	4,236	8,146	8,146	4,236	4,236	4,236	16,291
096A	YR	21	74,130	142,548	142,548	74,130	74,130	74,130	570,192
097A	V-S	0.4	0	2,715	2,715	0	0	0	10,861

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
097A	V-YR	4.6	16,238	31,225	31,225	16,238	16,238	16,238	62,450
097B	S	4	0	27,152	27,152	0	0	0	108,608
097B	SF	4.1	0	27,831	27,831	14,473	14,473	0	111,323
097B	YR	4.3	15,179	29,188	29,188	15,179	15,179	15,179	116,754
097C-A	S	3.2	0	21,722	21,722	0	0	0	86,886
097C-A	SF	2.7	0	18,328	18,328	9,531	9,531	0	73,310
097C-A	YR	0.7	2,471	4,752	4,752	2,471	2,471	2,471	19,006
097C-B	S	1.1	0	7,467	7,467	0	0	0	29,867
097C-B	SF	1.6	0	10,861	10,861	5,648	5,648	0	43,443
097C-B	YR	1.8	6,354	12,218	12,218	6,354	6,354	6,354	48,874
098A	V-S	0.8	0	5,430	5,430	0	0	0	21,722
098A	V-YR	14.8	52,244	100,462	5,494	5,494	25,271	25,271	200,925
098A	YR	4.3	15,179	29,188	5,494	5,494	15,179	15,179	116,754
098B	SF	3.8	0	25,794	5,494	5,494	13,414	0	103,178
098B	V-SF	3	0	20,364	5,494	5,494	10,590	0	81,456
098B	YR	4.3	15,179	29,188	5,494	5,494	15,179	15,179	116,754
098C	V-S	0.5	0	3,394	3,394	0	0	0	13,576
098C	V-YR	2.3	8,119	15,612	5,494	5,494	8,119	8,119	31,225
098D	YR	1.4	4,942	9,503	5,494	4,942	4,942	4,942	38,013
099A	V-SF	1.9	0	12,897	12,897	6,707	6,707	0	51,589
099A	YR	0.7	2,471	4,752	4,752	2,471	2,471	2,471	19,006
099B	SF	2.2	0	14,934	14,934	7,766	7,766	0	59,734
099B	V-SF	1.6	0	10,861	10,861	5,648	5,648	0	43,443
100A	S	10.6	0	71,953	71,953	0	0	0	287,811
100A	SF	14.9	0	101,141	101,141	52,597	52,597	0	404,565
100A	V-S	1	0	6,788	6,788	0	0	0	27,152
100A	V-SF	0.5	0	3,394	3,394	1,765	1,765	0	13,576

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
100A	V-YR	0.6	2,118	4,073	4,073	2,118	2,118	2,118	8,146
100A	YR	2	7,060	13,576	13,576	7,060	7,060	7,060	54,304
100B	S	16.7	0	113,360	113,360	0	0	0	453,438
100B	SF	5.8	0	39,370	39,370	20,474	20,474	0	157,482
100B	YR	4.8	16,944	32,582	32,582	16,944	16,944	16,944	130,330
100C	S	5.9	0	40,049	40,049	0	0	0	160,197
100C	SF	6.2	0	42,086	42,086	21,886	21,886	0	168,342
101A	V-S	4.1	0	27,831	27,831	0	0	0	111,323
101A	V-SF	6.8	0	46,158	46,158	24,004	24,004	0	184,634
101B	V-SF	10.9	0	73,989	73,989	38,477	38,477	0	295,957
101C	S	4.9	0	33,261	33,261	0	0	0	133,045
101C	SF	4	0	27,152	27,152	14,120	14,120	0	108,608
101C	YR	2.2	7,766	14,934	14,934	7,766	7,766	7,766	59,734
101D	V-YR	7.3	25,769	49,552	49,552	25,769	25,769	25,769	99,105
101E	S	13.4	0	90,959	90,959	0	0	0	363,837
101E	SF	6	0	40,728	40,728	21,180	21,180	0	162,912
101E	YR	2.2	7,766	14,934	14,934	7,766	7,766	7,766	59,734
102A	S	14.1	0	95,711	95,711	0	0	0	382,843
102A	YR	1.9	6,707	12,897	12,897	6,707	6,707	6,707	51,589
102B	S	2.2	0	14,934	14,934	0	0	0	59,734
102B	SF	3.9	0	26,473	26,473	13,767	13,767	0	105,893
102B	YR	1.8	6,354	12,218	12,218	6,354	6,354	6,354	48,874
102C	S	12.7	0	86,208	86,208	0	0	0	344,830
102C	SF	12.8	0	86,886	86,886	45,184	45,184	0	347,546
102D	S	5.7	0	38,692	9,048	0	0	0	154,766
102D	SF	7.5	0	50,910	9,048	9,048	26,475	0	203,640
102D	V-S	0.9	0	6,109	6,109	0	0	0	24,437

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
102E	S	3.6	0	24,437	12,797	0	0	0	97,747
102E	V-S	1.3	0	8,824	8,824	0	0	0	35,298
102F	S	3.9	0	26,473	12,797	0	0	0	105,893
102F	V-S	1.8	0	12,218	12,218	0	0	0	48,874
103A	V-S	5.9	0	40,049	15,124	0	0	0	160,197
103A	V-YR	7.2	25,416	48,874	15,124	15,124	25,416	25,416	97,747
103B	S	3.6	0	24,437	15,124	0	0	0	97,747
103B	SF	5.9	0	40,049	15,124	15,124	20,827	0	160,197
103B	YR	3.4	12,002	23,079	15,124	12,002	12,002	12,002	92,317
105A	S	1.6	0	10,861	10,861	0	0	0	43,443
105A	SF	1.7	0	11,540	11,540	6,001	6,001	0	46,158
105A	YR	7	24,710	47,516	47,516	24,710	24,710	24,710	190,064
105B	V-S	4.8	0	32,582	32,582	0	0	0	130,330
105B	V-SF	10.6	0	71,953	71,953	37,418	37,418	0	287,811
105B	V-YR	7.3	25,769	49,552	49,552	25,769	25,769	25,769	99,105
105C	S	1.4	0	9,503	9,503	0	0	0	38,013
105C	SF	0.7	0	4,752	4,752	2,471	2,471	0	19,006
105C	YR	16.1	56,833	109,287	109,287	56,833	56,833	56,833	437,147
105D	S	8.5	0	57,698	57,698	0	0	0	230,792
105E	SF	1.4	0	9,503	9,503	4,942	4,942	0	38,013
105E	V-YR	1.8	6,354	12,218	12,218	6,354	6,354	6,354	24,437
105E	YR	4.1	14,473	27,831	27,831	14,473	14,473	14,473	111,323
106A	SF	0.4	0	2,715	2,715	1,412	1,412	0	10,861
106A	YR	3	10,590	20,364	20,364	10,590	10,590	10,590	81,456
106B	S	1.8	0	12,218	12,218	0	0	0	48,874
106B	SF	0.1	0	679	679	353	353	0	2,715
106B	YR	1.2	4,236	8,146	8,146	4,236	4,236	4,236	32,582

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
106C	SF	1.4	0	9,503	9,503	4,942	4,942	0	38,013
106C	V-YR	0.5	1,765	3,394	3,394	1,765	1,765	1,765	6,788
106C	YR	6	21,180	40,728	40,728	21,180	21,180	21,180	162,912
106D	S	0.7	0	4,752	4,752	0	0	0	19,006
106D	SF	1.7	0	11,540	11,540	6,001	6,001	0	46,158
106D	YR	6.7	23,651	45,480	45,480	23,651	23,651	23,651	181,918
107A	YR	9.6	33,888	65,165	65,165	33,888	33,888	33,888	260,659
107B	SF	2.7	0	18,328	18,328	9,531	9,531	0	73,310
107B	YR	13.5	47,655	91,638	91,638	47,655	47,655	47,655	366,552
107C	V-SF	1.2	0	8,146	8,146	4,236	4,236	0	32,582
107C	V-YR	6	21,180	40,728	40,728	21,180	21,180	21,180	81,456
107D	SF	2.1	0	14,255	14,255	7,413	7,413	0	57,019
107D	YR	5.5	19,415	37,334	37,334	19,415	19,415	19,415	149,336
108A	S	2.8	0	19,006	12,306	0	0	0	76,026
108A	SF	3.3	0	22,400	12,306	11,649	11,649	0	89,602
108A	YR	2.6	9,178	17,649	12,306	9,178	9,178	9,178	70,595
108C	S	1.8	0	12,218	12,218	0	0	0	48,874
108C	SF	5.3	0	35,976	12,306	12,306	18,709	0	143,906
108C	YR	3.7	13,061	25,116	12,306	12,306	13,061	13,061	100,462
108D	S	2.2	0	14,934	12,306	0	0	0	59,734
108D	SF	2.2	0	14,934	12,306	7,766	7,766	0	59,734
108D	V-YR	2.6	9,178	17,649	12,306	9,178	9,178	9,178	35,298
108E	SF	0.8	0	5,430	5,430	2,824	2,824	0	21,722
108E	YR	6	21,180	40,728	12,306	12,306	21,180	21,180	162,912
108F	S	0.8	0	5,430	5,430	0	0	0	21,722
108F	SF	4.1	0	27,831	12,306	12,306	14,473	0	111,323
108F	V-YR	4	14,120	27,152	12,306	12,306	14,120	14,120	54,304

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
109A	S	0.7	0	4,752	4,752	0	0	0	19,006
109A	V-YR	1.3	4,589	8,824	8,824	4,589	4,589	4,589	17,649
109A	YR	1.4	4,942	9,503	9,503	4,942	4,942	4,942	38,013
109B	S	3	0	20,364	20,364	0	0	0	81,456
109B	SF	19.4	0	131,687	131,687	68,482	68,482	0	526,749
109B	YR	8.5	30,005	57,698	57,698	30,005	30,005	30,005	230,792
110A	S	1.4	0	9,503	9,503	0	0	0	38,013
110A	SF	2.4	0	16,291	16,291	8,472	8,472	0	65,165
110A	YR	15.7	55,421	106,572	106,572	55,421	55,421	55,421	426,286
110B	SF	4.8	0	32,582	32,582	16,944	16,944	0	130,330
110B	YR	29.1	102,723	197,531	197,531	102,723	102,723	102,723	790,123
110C	S	0.6	0	4,073	4,073	0	0	0	16,291
110C	SF	2.9	0	19,685	19,685	10,237	10,237	0	78,741
110C	V-SF	0.3	0	2,036	2,036	1,059	1,059	0	8,146
110C	V-YR	2.5	8,825	16,970	16,970	8,825	8,825	8,825	33,940
110C	YR	2.9	10,237	19,685	19,685	10,237	10,237	10,237	78,741
110D	S	0.5	0	3,394	3,394	0	0	0	13,576
110D	V-YR	1.5	5,295	10,182	10,182	5,295	5,295	5,295	20,364
110D	YR	5.2	18,356	35,298	35,298	18,356	18,356	18,356	141,190
110E	S	0.5	0	3,394	3,394	0	0	0	13,576
110E	V-SF	1.6	0	10,861	10,861	5,648	5,648	0	43,443
110E	V-YR	3.1	10,943	21,043	21,043	10,943	10,943	10,943	42,086
110F	V-SF	1.1	0	7,467	7,467	3,883	3,883	0	29,867
110F	V-YR	1.2	4,236	8,146	8,146	4,236	4,236	4,236	16,291
110G	SF	2	0	13,576	13,576	7,060	7,060	0	54,304
110G	V-SF	0.4	0	2,715	2,715	1,412	1,412	0	10,861
110G	V-YR	1.2	4,236	8,146	8,146	4,236	4,236	4,236	16,291

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
110H	SF	1.5	0	10,182	10,182	5,295	5,295	0	40,728
110H	V-YR	2.1	7,413	14,255	14,255	7,413	7,413	7,413	28,510
110H	YR	4.8	16,944	32,582	32,582	16,944	16,944	16,944	130,330
110I	V-SF	1.4	0	9,503	9,503	4,942	4,942	0	38,013
110I	V-YR	2.9	10,237	19,685	19,685	10,237	10,237	10,237	39,370
110I	YR	3.5	12,355	23,758	23,758	12,355	12,355	12,355	95,032
110J	V-SF	1.7	0	11,540	11,540	6,001	6,001	0	46,158
110J	V-YR	2.6	9,178	17,649	17,649	9,178	9,178	9,178	35,298
110J	YR	2.2	7,766	14,934	14,934	7,766	7,766	7,766	59,734
110K	V-SF	1.8	0	12,218	12,218	6,354	6,354	0	48,874
110K	V-YR	3.3	11,649	22,400	22,400	11,649	11,649	11,649	44,801
110L	V-SF	0.5	0	3,394	3,394	1,765	1,765	0	13,576
110L	V-YR	1.2	4,236	8,146	8,146	4,236	4,236	4,236	16,291
111A	SF	3.8	0	25,794	25,794	13,414	13,414	0	103,178
111A	YR	4.3	15,179	29,188	29,188	15,179	15,179	15,179	116,754
111B	SF	4	0	27,152	27,152	14,120	14,120	0	108,608
111C	YR	9	31,770	61,092	61,092	31,770	31,770	31,770	244,368
111D	YR	7.1	25,063	48,195	12,506	12,506	25,063	25,063	192,779
113A	SF	4.6	0	31,225	31,225	16,238	16,238	0	124,899
113A	YR	8.1	28,593	54,983	54,983	28,593	28,593	28,593	219,931
114A	V-SF	0.3	0	2,036	2,036	1,059	1,059	0	8,146
114A	V-YR	2.9	10,237	19,685	19,685	10,237	10,237	10,237	39,370
114C	SF	2.4	0	16,291	16,291	8,472	8,472	0	65,165
114C	YR	6.5	22,945	44,122	44,122	22,945	22,945	22,945	176,488
114D	SF	4	0	27,152	27,152	14,120	14,120	0	108,608
114D	YR	4.3	15,179	29,188	29,188	15,179	15,179	15,179	116,754
114E	SF	0.9	0	6,109	6,109	3,177	3,177	0	24,437

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
114F	SF	2.3	0	15,612	13,553	8,119	8,119	0	62,450
114F	YR	7.7	27,181	52,268	13,553	13,553	27,181	27,181	209,070
114G	SF	1.7	0	11,540	11,540	6,001	6,001	0	46,158
114G	YR	7	24,710	47,516	13,553	13,553	24,710	24,710	190,064
114H	SF	1.2	0	8,146	8,146	4,236	4,236	0	32,582
114I	SF	0.7	0	4,752	4,752	2,471	2,471	0	19,006
114I	YR	1.9	6,707	12,897	12,897	6,707	6,707	6,707	51,589
114J	SF	3.5	0	23,758	13,553	12,355	12,355	0	95,032
114J	YR	5.2	18,356	35,298	13,553	13,553	18,356	18,356	141,190
114K	SF	1	0	6,788	6,788	3,530	3,530	0	27,152
114K	YR	3.6	12,708	24,437	13,553	12,708	12,708	12,708	97,747
114L	SF	3.3	0	22,400	13,553	11,649	11,649	0	89,602
114M	SF	1.7	0	11,540	11,540	6,001	6,001	0	46,158
114N	SF	1.7	0	11,540	11,540	6,001	6,001	0	46,158
114R	SF	7	0	47,516	47,516	24,710	24,710	0	190,064
114R	YR	20.1	70,953	136,439	136,439	70,953	70,953	70,953	545,755
114S	SF	6.3	0	42,764	42,764	22,239	22,239	0	171,058
114S	YR	5.1	18,003	34,619	34,619	18,003	18,003	18,003	138,475
114T	SF	14.9	0	101,141	101,141	52,597	52,597	0	404,565
114T	YR	12.4	43,772	84,171	84,171	43,772	43,772	43,772	336,685
116A	V-YR	5.4	19,062	36,655	36,655	19,062	19,062	19,062	73,310
116A	YR	17.6	62,128	119,469	119,469	62,128	62,128	62,128	477,875
117A	V-SF	11.4	0	77,383	77,383	40,242	40,242	0	309,533
117B	V-SF	11.2	0	50,348	3,438	3,438	11,298	0	152,051
117B	V-YR	13.3	46,949	50,348	3,438	3,438	11,298	11,298	180,561
117C	V-SF	3.1	0	21,043	3,438	3,438	10,943	0	84,171
117C	V-YR	10.9	38,477	50,348	3,438	3,438	11,298	11,298	147,978

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
118A	V-YR	4.8	16,944	32,582	9,617	9,617	16,944	16,944	65,165
118B	V-SF	0.8	0	5,430	5,430	2,824	2,824	0	21,722
118B	V-YR	3.1	10,943	21,043	9,617	9,617	10,943	10,943	42,086
118C	SF	1.1	0	7,467	7,467	3,883	3,883	0	29,867
118C	YR	8.2	28,946	55,662	55,662	28,946	28,946	28,946	222,646
118D	SF	1.8	0	12,218	12,218	6,354	6,354	0	48,874
118D	YR	8.6	30,358	58,377	58,377	30,358	30,358	30,358	233,507
118E	SF	1.2	0	8,146	8,146	4,236	4,236	0	32,582
118E	YR	7.1	25,063	48,195	48,195	25,063	25,063	25,063	192,779
118F	SF	2	0	13,576	13,576	7,060	7,060	0	54,304
118F	YR	8.4	29,652	57,019	57,019	29,652	29,652	29,652	228,077
119B	S	0.7	0	4,752	4,752	0	0	0	19,006
119B	SF	12.9	0	87,565	87,565	45,537	45,537	0	350,261
119B	YR	6.4	22,592	43,443	43,443	22,592	22,592	22,592	173,773
119C	SF	9.6	0	65,165	65,165	33,888	33,888	0	260,659
119D	S	1.1	0	7,467	7,467	0	0	0	29,867
119D	SF	3	0	20,364	20,364	10,590	10,590	0	81,456
120A	V-YR	17.1	60,363	116,075	116,075	60,363	60,363	60,363	232,150
120B	V-YR	20.7	73,071	140,512	140,512	73,071	73,071	73,071	281,023
120C	V-YR	7	24,710	47,516	47,516	24,710	24,710	24,710	95,032
120D	V-YR	3.6	12,708	24,437	24,437	12,708	12,708	12,708	48,874
120E	V-YR	5.3	18,709	35,976	35,976	18,709	18,709	18,709	71,953
120F	V-YR	20.6	72,718	139,833	19,260	19,260	72,718	72,718	279,666
120G	V-SF	0.3	0	2,036	2,036	1,059	1,059	0	8,146
120G	V-YR	15.8	55,774	107,250	19,260	19,260	55,774	55,774	214,501
121A	SF	9.8	0	66,522	66,522	34,594	34,594	0	266,090
121A	V-SF	1.3	0	8,824	8,824	4,589	4,589	0	35,298

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
121A	V-YR	6.1	21,533	41,407	41,407	21,533	21,533	21,533	82,814
121A	YR	6.9	24,357	46,837	46,837	24,357	24,357	24,357	187,349
122A	V-SF	20.1	0	136,439	136,439	70,953	70,953	0	545,755
122B	V-SF	6.2	0	42,086	42,086	21,886	21,886	0	168,342
122C	S	4.6	0	31,225	31,225	0	0	0	124,899
122D	SF	2.1	0	14,255	14,255	7,413	7,413	0	57,019
122E	S	7.6	0	51,589	51,589	0	0	0	206,355
123A	V-YR	11.3	39,889	76,704	76,704	39,889	39,889	39,889	153,409
123B	V-S	1.8	0	12,218	12,218	0	0	0	48,874
123B	V-YR	5.1	18,003	34,619	34,619	18,003	18,003	18,003	69,238
123C	V-S	0.7	0	4,752	4,752	0	0	0	19,006
123C	V-SF	1.4	0	9,503	9,503	4,942	4,942	0	38,013
123C	V-YR	2.1	7,413	14,255	14,255	7,413	7,413	7,413	28,510
123D	V-S	1.9	0	12,897	12,897	0	0	0	51,589
123D	V-YR	3.3	11,649	22,400	22,400	11,649	11,649	11,649	44,801
124A	S	1	0	6,788	6,788	0	0	0	27,152
124A	SF	2.7	0	18,328	18,328	9,531	9,531	0	73,310
124A	YR	5.5	19,415	37,334	37,334	19,415	19,415	19,415	149,336
124B	S	0.7	0	4,752	4,752	0	0	0	19,006
124B	YR	2.5	8,825	16,970	16,970	8,825	8,825	8,825	67,880
124C	V-S	1.2	0	8,146	8,146	0	0	0	32,582
124C	V-YR	1.9	6,707	12,897	12,897	6,707	6,707	6,707	25,794
125A	S	0.4	0	2,715	2,715	0	0	0	10,861
125A	SF	1.7	0	11,540	11,540	6,001	6,001	0	46,158
125B	S	1.3	0	8,824	8,824	0	0	0	35,298
125B	SF	1	0	6,788	6,788	3,530	3,530	0	27,152
125B	YR	3.6	12,708	24,437	24,437	12,708	12,708	12,708	97,747

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
126A	S	18.1	0	122,863	6,463	0	0	0	491,451
126B	SF	15	0	101,820	101,820	52,950	52,950	0	407,280
126B	YR	7.9	27,887	53,625	53,625	27,887	27,887	27,887	214,501
126C	S	10.9	0	73,989	73,989	0	0	0	295,957
127A	S	0.7	0	4,752	4,752	0	0	0	19,006
127A	SF	3.7	0	25,116	25,116	13,061	13,061	0	100,462
127A	YR	13.9	49,067	94,353	94,353	49,067	49,067	49,067	377,413
128A	V-S	0.9	0	6,109	6,109	0	0	0	24,437
128A	V-YR	3	10,590	20,364	20,364	10,590	10,590	10,590	40,728
129A	S	3.4	0	23,079	23,079	0	0	0	92,317
129A	SF	5.1	0	34,619	34,619	18,003	18,003	0	138,475
129B	S	2.3	0	15,612	15,612	0	0	0	62,450
129B	SF	3.8	0	25,794	25,794	13,414	13,414	0	103,178
130A	V-S	0.9	0	6,109	6,109	0	0	0	24,437
130A	V-SF	0.4	0	2,715	2,715	1,412	1,412	0	10,861
130A	V-YR	5	17,650	33,940	33,940	17,650	17,650	17,650	67,880
131A	S	1	0	6,788	6,788	0	0	0	27,152
131A	SF	1.9	0	12,897	12,897	6,707	6,707	0	51,589
131A	YR	15.1	53,303	102,499	13,573	13,573	53,303	53,303	409,995
132A	S	1.6	0	10,861	10,861	0	0	0	43,443
132A	SF	10.2	0	69,238	69,238	36,006	36,006	0	276,950
132A	YR	13.8	48,714	93,674	93,674	48,714	48,714	48,714	374,698
132B	SF	8.9	0	60,413	3,232	3,232	14,865	0	241,653
133A	SF	3.9	0	26,473	26,473	13,767	13,767	0	105,893
133B	SF	0.3	0	2,036	2,036	1,059	1,059	0	8,146
133B	YR	5.3	18,709	35,976	35,976	18,709	18,709	18,709	143,906
133C	SF	3.8	0	25,794	25,794	13,414	13,414	0	103,178

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
133C	YR	4.1	14,473	27,831	27,831	14,473	14,473	14,473	111,323
134A	SF	6.5	0	44,122	44,122	22,945	22,945	0	176,488
134B	SF	6.8	0	46,158	46,158	24,004	24,004	0	184,634
134C	YR	3.1	10,943	21,043	21,043	10,943	10,943	10,943	84,171
135A	V-S	5.5	0	37,334	7,109	0	0	0	149,336
135B	V-S	3.4	0	23,079	7,109	0	0	0	92,317
135C	V-S	1.3	0	8,824	7,109	0	0	0	35,298
136A	V-S	4	0	27,152	5,171	0	0	0	108,608
136A	V-SF	3.4	0	23,079	5,171	5,171	12,002	0	92,317
136B	V-S	12	0	81,456	9,695	0	0	0	325,824
137A	SF	1.5	0	10,182	10,182	5,295	5,295	0	40,728
137A	YR	4.5	15,885	30,546	30,546	15,885	15,885	15,885	122,184
142A	S	3.4	0	23,079	8,402	0	0	0	92,317
142A	SF	11.8	0	80,098	8,402	8,402	38,650	0	320,394
142A	YR	9	31,770	61,092	8,402	8,402	31,770	31,770	244,368
142B	SF	12.1	0	82,135	11,634	11,634	42,713	0	328,539
144A	SF	2.9	0	19,685	19,685	10,237	10,237	0	78,741
144A	V-SF	2.5	0	16,970	16,970	8,825	8,825	0	67,880
144A	V-YR	10.6	37,418	71,953	71,953	37,418	37,418	37,418	143,906
144A	YR	9.6	33,888	65,165	65,165	33,888	33,888	33,888	260,659
144B	SF	1.8	0	12,218	12,218	6,354	6,354	0	48,874
144B	YR	5	17,650	33,940	33,940	17,650	17,650	17,650	135,760
144C	SF	1.4	0	9,503	9,503	4,942	4,942	0	38,013
144C	V-SF	0.4	0	2,715	2,715	1,412	1,412	0	10,861
144C	V-YR	10.6	37,418	71,953	71,953	37,418	37,418	37,418	143,906
144C	YR	4.2	14,826	28,510	28,510	14,826	14,826	14,826	114,038
144D	SF	2.6	0	17,649	17,649	9,178	9,178	0	70,595

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
144D	YR	8.7	30,711	59,056	59,056	30,711	30,711	30,711	236,222
145B	V-SF	2.5	0	16,970	12,926	8,825	8,825	0	67,880
145B	V-YR	6.7	23,651	45,480	12,926	12,926	23,651	23,651	90,959
145C	V-SF	2.1	0	14,255	12,926	7,413	7,413	0	57,019
145C	V-YR	1.5	5,295	10,182	10,182	5,295	5,295	5,295	20,364
145E	SF	2.1	0	14,255	12,926	7,413	7,413	0	57,019
145F	V-SF	3.3	0	22,400	12,926	11,649	11,649	0	89,602
145F	V-YR	0.9	3,177	6,109	6,109	3,177	3,177	3,177	12,218
145H	S	4.2	0	28,510	12,926	0	0	0	114,038
145H	SF	6.3	0	42,764	12,926	12,926	22,239	0	171,058
145I	SF	22	0	149,336	12,926	12,926	59,461	0	597,344
145J	SF	9.5	0	64,486	12,926	12,926	33,535	0	257,944
145J	YR	15.4	54,362	104,535	12,926	12,926	54,362	54,362	418,141
145K	S	1.7	0	11,540	11,540	0	0	0	46,158
145K	SF	14.4	0	97,747	12,926	12,926	50,832	0	390,989
145K	YR	3.5	12,355	23,758	12,926	12,355	12,355	12,355	95,032
146A	S	1.2	0	8,146	8,146	0	0	0	32,582
146A	SF	2.1	0	14,255	12,797	7,413	7,413	0	57,019
146A	V-YR	1.5	5,295	10,182	10,182	5,295	5,295	5,295	20,364
146C	S	2	0	13,576	12,797	0	0	0	54,304
146C	SF	9.1	0	61,771	12,797	12,797	32,123	0	247,083
146D	V-SF	3.2	0	21,722	12,797	11,296	11,296	0	86,886
146D	V-YR	1.1	3,883	7,467	7,467	3,883	3,883	3,883	14,934
146E	S	3.2	0	21,722	12,797	0	0	0	86,886
146E	SF	6.1	0	41,407	12,797	12,797	21,533	0	165,627
146F	V-S	2.4	0	16,291	12,797	0	0	0	65,165
146F	V-SF	0.75	0	5,091	5,091	2,648	2,648	0	20,364

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			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
146G	S	1.5	0	10,182	10,182	0	0	0	40,728
146G	SF	7.5	0	50,910	12,797	12,797	26,475	0	203,640
146I	S	1.6	0	10,861	10,861	0	0	0	43,443
146I	SF	10.5	0	71,274	71,274	37,065	37,065	0	285,096
146I	YR	1.7	6,001	11,540	11,540	6,001	6,001	6,001	46,158
146L	S	6.5	0	44,122	44,122	0	0	0	176,488
146L	SF	2.3	0	15,612	15,612	8,119	8,119	0	62,450
147A	SF	3	0	20,364	20,364	10,590	10,590	0	81,456
147B	SF	1.2	0	8,146	8,146	4,236	4,236	0	32,582
147B	YR	4.8	16,944	32,582	32,582	16,944	16,944	16,944	130,330
147C	SF	5	0	33,940	33,940	17,650	17,650	0	135,760
147D	S	2.3	0	15,612	15,612	0	0	0	62,450
147D	SF	5.8	0	39,370	39,370	20,474	20,474	0	157,482
147D	YR	7.7	27,181	52,268	40,072	27,181	27,181	27,181	209,070
148B	SF	3.6	0	13,249	646	646	2,973	0	97,747
148C	S	1.3	0	8,824	646	0	0	0	35,298
148C	YR	5.4	13,249	13,249	646	646	2,973	2,973	146,621
148D	SF	2.1	0	14,255	14,255	7,413	7,413	0	57,019
148E	SF	1.9	0	12,897	12,897	6,707	6,707	0	51,589
151C	S	2.5	0	16,970	16,970	0	0	0	67,880
152B	V-SF	4.6	0	31,225	5,817	5,817	16,238	0	124,899
153D	SF	5.3	0	35,976	35,976	18,709	18,709	0	143,906
154A	V-SF	1.5	0	10,182	10,182	5,295	5,295	0	40,728
154A	V-YR	30.6	108,018	207,713	153,565	108,018	108,018	108,018	415,426
154B	SF	1	0	6,788	6,788	3,530	3,530	0	27,152
154B	V-YR	2.9	10,237	19,685	19,685	10,237	10,237	10,237	39,370
154B	YR	21.9	77,307	148,657	148,657	77,307	77,307	77,307	594,629

**Agri-Mark dba Cabot Creamery
 Indirect Discharge Permit ID-9-0043
 Approved Application Rates - December 3, 2015**

Attachment A-2

FIELD NUMBER	APPL. CODE	ACRES	MAXIMUM DAILY FIELD APPLICATION (gpd)						ANNUAL LIMIT (gal./year)
			4/1 - 5/14	5/15 - 5/31	6/1 - 9/15	9/16 - 10/31	11/1 - 11/15	11/16 - 3/31	
154C	SF	1	0	6,788	6,788	3,530	3,530	0	27,152
154C	V-SF	2.2	0	14,934	14,934	7,766	7,766	0	59,734
154C	V-YR	16.7	58,951	113,360	113,360	58,951	58,951	58,951	226,719
154C	YR	8.5	30,005	57,698	57,698	30,005	30,005	30,005	230,792
155A	S	1.1	0	7,467	7,467	0	0	0	29,867
155A	SF	0.5	0	3,394	3,394	1,765	1,765	0	13,576
155A	YR	11.5	40,595	78,062	78,062	40,595	40,595	40,595	312,248
155B	YR	2	7,060	13,576	13,576	7,060	7,060	7,060	54,304
155C	V-SF	1.1	0	7,467	7,467	3,883	3,883	0	29,867
155C	V-YR	4.9	17,297	33,261	33,261	17,297	17,297	17,297	66,522
156A	V-SF	4.8	0	32,582	32,582	16,944	16,944	0	130,330
156A	V-YR	5.4	19,062	36,655	36,655	19,062	19,062	19,062	73,310
156B	SF	5.1	0	34,619	34,619	18,003	18,003	0	138,475
156B	V-SF	12.1	0	82,135	82,135	42,713	42,713	0	328,539
156C	S	7.4	0	50,231	50,231	0	0	0	200,925
156C	SF	4	0	27,152	27,152	14,120	14,120	0	108,608
156C	YR	6	21,180	40,728	40,728	21,180	21,180	21,180	162,912
156D	S	2	0	13,576	13,576	0	0	0	54,304
156D	SF	1.4	0	9,503	9,503	4,942	4,942	0	38,013
156D	YR	7.9	27,887	53,625	53,625	27,887	27,887	27,887	214,501

Agri-Mark dba Cabot Creamery
 Indirect Discharge Permit ID-9-0043
 Approved Manure Pits
 December 3, 2015

ATTACHMENT B

PIT	LAST NAME	FIRST NAME	TOWN	DISPOSAL LIMIT
0001 X1	BOTHFELD	WALTER	CABOT	80,000
0023 X1	ROWELL	NORBERT	WALDEN	24,600
0025 X1	MICHAUD	DENNIS	HARDWICK	100,000
0025 X2	MICHAUD	DENNIS	HARDWICK	100,000
0025 X3	MICHAUD	DENNIS	HARDWICK	44,000
0043 X1	CLIFFORD	JOHN (BUDDY)	WALDEN	115,000
0050 X1	LAGGIS	CHRIS & JOHN	HARDWICK	100,000
0063 X1	GREAVES	PERLEY	WALDEN	84,780
0065 X1	TRUDEAU	CHAD	HARDWICK	119,712
0066 X1	HALL	R & J	EAST MONTPELIER	80,000
0071 X1	MCCOY	HAROLD	HARDWICK	70,000
0073 X1	KISH	KETH	HARDWICK	120,000
0074 X1	GEBBIE	PETER	GREENSBORO	237,116
0075 X1	BICKFORD	CHARLES	MARSHFIELD	30,000
0080 X1	MICHAUD	MIKE	WALDEN	90,000
0088 X1	NELSON JR.	DOUGLAS, JR	CRAFTSBURY	200,000
0102 X1	BEATTIE	CATHERINE	DANVILLE	36,000
0105 X1	SIMPSON	JEFF	BARTON	50,000
0106 X1	MCALLISTER	RUSS	HARDWICK	117,255
0110 X1	SPRAGUE	CHELSEA	BROOKFIELD	400,000
0114 X1	ROYER	DENIS	IRASBURG	108,000
0116 X1	LYON	MELVIN	BARTON	10,500
0117 X1	YOUNG	MERLE, JR	GLOVER	180,000
0415 X1	LANPHEAR	JOE	MORRISTOWN	80,000
0497 X1	PATTERSON	ROY	DANVILLE	100,000
0503 X1	DAVIS	DONALD	PEACHAM	200,000
0521 X1	DUNCAN	CLARK	BARNET	17,832
0536 X1	LYMAN	GARY	GLOVER	85,000
0537 X1	FAYLOR/LING	SHARON/ARTHUR	HARDWICK	22,740
0538 X1	KISH	EDWARD	HARDWICK	75,000
0539 X1	TOWNE	RAYMOND	MORRISTOWN	45,000
0540 X1	ALLEN	MATT	WALDEN	10,000
0544 X1	RIENDEAU	MIKE	BROWNINGTON	540,000
0546 X1	FAIRMONT FARMS		CRAFTSBURY	85,000
0546 X2	FAIRMONT FARMS		CRAFTSBURY	17,000
0574 X1	PERRON	BRIAN	GLOVER	100,000
0575 X1	SMITH	JEFFERY	IRASBURG	87,500
0577 X1	STRONG	ROBERT	CRAFTSBURY	57,500
0651 X1	COLBURN	MARK	GLOVER	27,716
0654 X1	BROE, JR.	JOHN, JR	BARTON	45,659
0671 X1	MORIN	DENNIS	MORRISTOWN	54,819

**Agri-Mark dba Cabot Creamery
 Indirect Discharge Permit ID-9-0043
 Approved Z-Fields - December 3, 2015**

Attachment C

FIELD	LAST NAME	FIRST NAME	TOWN	MAPPED ACREAGE	DAILY DISPOSAL LIMIT	ANNUAL DISPOSAL LIMIT
0025 Z2	MICHAUD	DENNIS	Hardwick	37.0	125,578	251,156
0026 Z1	GOODRICH	WALTER	Cabot	4.0	13,576	27,152
0026 Z2	GOODRICH	WALTER	Cabot	1.0	3,394	6,788
0026 Z3	GOODRICH	WALTER	Cabot	4.0	13,576	27,152
0026 Z4	GOODRICH	WALTER	Cabot	4.0	13,576	27,152
0040 Z1	CABOT CREAMERY		Cabot	7.5	25,455	50,910
0040 Z2	CABOT CREAMERY		Cabot	See Note #1	See Note #2	See Note #3
0062 Z1	BELLAVANCE	BRETT	Cabot	See Note #1	See Note #2	See Note #3
0062 Z2	BELLAVANCE	BRETT	Cabot	See Note #1	See Note #2	See Note #3
0063 Z1	GREAVES	PERLEY	Walden	See Note #1	See Note #2	See Note #3
0063 Z2	GREAVES	PERLEY	Walden	See Note #1	See Note #2	See Note #3
0065 Z1	TRUDEAU	CHAD	Hardwick	8.9	30,207	60,413
0065 Z2	TRUDEAU	CHAD	Hardwick	8.4	28,510	57,019
0073 Z1	LAGGIS	CHRIS & JOHN	Hardwick	12.0	40,728	81,456
0077 Z1	LANGMAID	HUGH	Danville	18.0	61,092	122,184
0079 Z1	PASTULA	DONALD	Danville	10.5	35,637	71,274
0089 Z1	ALLEN	BRADLY	Wolcott	9.0	30,546	61,092
0090 Z6	HILL	ED	Greensboro	13.3	45,140	90,280
0090 Z7	HILL	ED	Greensboro	14.3	48,534	97,068
0095 Z1	GEORGE	PHILLIP	Calais	9.0	30,546	61,092
0096 Z1	RIENDEAU	ROBERT	Glover	2.6	8,824	17,649
0096 Z2	RIENDEAU	ROBERT	Glover	2.0	6,788	13,576
0096 Z3	RIENDEAU	ROBERT	Glover	16.0	54,304	108,608
0097 Z1	FRYE	BERTON	Danville	18.0	61,092	122,184
0117 Z1	YOUNG	MERLE, JR	Glover	13.0	44,122	88,244
0118 Z1	LANPHEAR	JOSEPH	Morristown	10.0	33,940	67,880
0118 Z2	LANPHEAR	JOSEPH	Morristown	16.0	54,304	108,608
0137 Z1	ROGERS	JASON	Glover	7.0	23,758	47,516
0408 Z1	ARMSTRONG	JO GRADY	Walden	8.0	27,152	54,304
0408 Z2	ARMSTRONG	JO GRADY	Walden	4.0	13,576	27,152
0408 Z3	ARMSTRONG	JO GRADY	Walden	5.0	16,970	33,940
0408 Z4	ARMSTRONG	JO GRADY	Walden	7.0	23,758	47,516
0408 Z5	ARMSTRONG	JO GRADY	Walden	20.0	67,880	135,760
0442 Z1	LUCE	ANDREW	Calais	7.0	23,758	47,516
0442 Z2	LUCE	ANDREW	Calais	4.0	13,576	27,152
0442 Z3	LUCE	ANDREW	Calais	3.0	10,182	20,364
0442 Z4	LUCE	ANDREW	Calais	10.0	33,940	67,880
0442 Z5	LUCE	ANDREW	Calais	7.5	25,455	50,910
0442 Z8	LUCE	ANDREW	Calais	12.0	40,728	81,456
0453 Z1	GARDNER	SETH	East Montpelier	See Note #1	See Note #2	See Note #3
0453 Z2	GARDNER	SETH	East Montpelier	See Note #1	See Note #2	See Note #3
0455 Z1	CURRIER	JOE	Danville	26.0	88,244	176,488

**Agri-Mark dba Cabot Creamery
 Indirect Discharge Permit ID-9-0043
 Approved Z-Fields - December 3, 2015**

Attachment C

FIELD	LAST NAME	FIRST NAME	TOWN	MAPPED ACREAGE	DAILY DISPOSAL LIMIT	ANNUAL DISPOSAL LIMIT
0455 Z2	CURRIER	JOE	Danville	13.0	44,122	88,244
0455 Z3	CURRIER	JOE	Danville	15.0	50,910	101,820
0492 Z1	LASHOON	DICK	Marshfield	16.5	56,001	112,002
0492 Z3	LASHOON	DICK	Marshfield	5.0	16,970	33,940
0516 Z1	MEARS	RICHARD	Marshfield	9.0	30,546	61,092
0516 Z2	MEARS	RICHARD	Marshfield	10.0	33,940	67,880
0536 Z1	LYMAN	GARY	Glover	8.5	28,849	57,698
0536 Z5	LYMAN	GARY	Glover	13.0	44,122	88,244
0536 Z7	LYMAN	GARY	Glover	7.0	23,758	47,516
0536 Z8	LYMAN	GARY	Glover	21.5	72,971	145,942
0538 Z1	KISH	EDWARD	Hardwick	8.0	27,152	54,304
0538 Z2	KISH	EDWARD	Hardwick	8.0	27,152	54,304
0538 Z3	KISH	EDWARD	Hardwick	6.0	20,364	40,728
0549 Z1	SMITH	HANNAH	Calais	2.5	8,485	16,970
0551 Z1	HUNTER	CARY	Sutton	See Note #1	See Note #2	See Note #3
0551 Z2	HUNTER	CARY	Sutton	See Note #1	See Note #2	See Note #3
0551 Z3	HUNTER	CARY	Sutton	See Note #1	See Note #2	See Note #3
0551 Z4	HUNTER	CARY	Sutton	See Note #1	See Note #2	See Note #3
0551 Z5	HUNTER	CARY	Sutton	See Note #1	See Note #2	See Note #3
0551 Z6	HUNTER	CARY	Sutton	18.5	62,789	125,578
0551 Z7	HUNTER	CARY	Sutton	7.7	26,134	52,268
0559 Z1	BROWN	STEVE	Glover	11.0	37,334	74,668
0559 Z2	BROWN	STEVE	Barton	5.0	16,970	33,940
0560 Z1	STONE	ARLAND, JR	Glover	4.8	16,291	32,582
0560 Z2	STONE	ARLAND, JR	Glover	9.0	30,546	61,092
0561 Z1	BROWN	ELIZABETH	Marshfield	10.6	35,976	71,953
0561 Z2	BROWN	ELIZABETH	Marshfield	7.8	26,473	52,946
0566 Z1	DEWIT & RUSSELL		Barton	20.0	67,880	135,760
0566 Z3	DEWIT & RUSSELL		Barton	54.0	183,276	366,552
0566 Z4	DEWIT & RUSSELL		Barton	9.0	30,546	61,092
0568 Z1	STODDARD	MEL	Wolcott	8.2	27,831	55,662
0568 Z2	STODDARD	MEL	Wolcott	3.3	11,200	22,400
0568 Z3	STODDARD	MEL	Wolcott	2.5	8,485	16,970
0568 Z4	STODDARD	MEL	Wolcott	9.4	31,904	63,807
0569 Z1	YORK	CHAD	Greensboro	11.0	37,334	74,668
0569 Z2	YORK	CHAD	Greensboro	11.0	37,334	74,668
0569 Z3	YORK	CHAD	Greensboro	21.0	71,274	142,548
0569 Z4	YORK	CHAD	Greensboro	5.0	16,970	33,940
0569 Z5	YORK	CHAD	Greensboro	5.0	16,970	33,940
0569 Z6	YORK	CHAD	Greensboro	7.0	23,758	47,516
0572 Z1	HAUSERMAN	WILLIAM	Danville	2.0	6,788	13,576
0572 Z2	HAUSERMAN	WILLIAM	Danville	11.0	37,334	74,668

**Agri-Mark dba Cabot Creamery
 Indirect Discharge Permit ID-9-0043
 Approved Z-Fields - December 3, 2015**

Attachment C

FIELD	LAST NAME	FIRST NAME	TOWN	MAPPED ACREAGE	DAILY DISPOSAL LIMIT	ANNUAL DISPOSAL LIMIT
0572 Z3	HAUSERMAN	WILLIAM	Danville	1.0	3,394	6,788
0574 Z1	PERRON	BRIAN	Glover	5.0	16,970	33,940
0574 Z2	PERRON	BRIAN	Glover	7.6	25,794	51,589
0574 Z3	PERRON	BRIAN	Glover	12.0	40,728	81,456
0578 Z1	AUGER	MARCEL	Glover	See Note #1	See Note #2	See Note #3
0578 Z2	AUGER	MARCEL	Glover	See Note #1	See Note #2	See Note #3
0579 Z1	WILLSON	DEXTER	Danville	See Note #1	See Note #2	See Note #3
0579 Z2	WILLSON	DEXTER	Danville	See Note #1	See Note #2	See Note #3
0579 Z3	WILLSON	DEXTER	Danville	See Note #1	See Note #2	See Note #3
0580 Z1	LANGDELL	WESTLY	Wolcott	12.0	40,728	81,456
0583 Z1	ROY	BRUCE	Peacham	12.0	40,728	81,456
0584 Z1	FENOFF	KIRK	Danville	5.0	16,970	33,940
0584 Z2	FENOFF	KIRK	Danville	10.0	33,940	67,880
0584 Z3	FENOFF	KIRK	Danville	20.0	67,880	135,760
0584 Z4	FENOFF	KIRK	Danville	7.0	23,758	47,516
0588 Z1	MENARD	KENNETH	Craftsbury	4.0	13,576	27,152
0588 Z2	MENARD	KENNETH	Craftsbury	See Note #1	See Note #2	See Note #3
0590 Z1	RODWIN	VICTOR	Woodbury	23.0	78,062	156,124
0593 Z1	ROBILLARD BROS		Brownington	7.2	24,437	48,874
0594 Z1	PLANTE	RANDALL	Morristown	See Note #1	See Note #2	See Note #3
0594 Z2	PLANTE	RANDALL	Morristown	See Note #1	See Note #2	See Note #3
0596 Z1	LANGMAID	DON	Danville	17.0	57,698	115,396
0596 Z2	LANGMAID	DON	Danville	18.0	61,092	122,184
0596 Z3	LANGMAID	DON	Danville	21.0	71,274	142,548
0597 Z1	LANGMAID	CLIFF	Danville	13.0	44,122	88,244
0597 Z2	LANGMAID	CLIFF	Danville	4.0	13,576	27,152
0597 Z3	LANGMAID	CLIFF	Danville	7.0	23,758	47,516
0597 Z4	LANGMAID	CLIFF	Danville	5.5	18,667	37,334
0597 Z5	LANGMAID	CLIFF	Danville	5.0	16,970	33,940
0597 Z6	LANGMAID	CLIFF	Danville	14.0	47,516	95,032
0597 Z7	LANGMAID	CLIFF	Danville	4.0	13,576	27,152
0598 Z1	BROWN	ARNOLD	Glover	10.0	33,940	67,880
0600 Z1	HOERMANN	ELLEN	Wolcott	See Note #1	See Note #2	See Note #3
0601 Z1	SHATNEY	CARROLL	Greensboro	28.0	95,032	190,064
0604 Z1	ABBOTT	RICHARD	Orange	15.0	50,910	101,820
0604 Z2	ABBOTT	RICHARD	Orange	5.0	16,970	33,940
0605 Z1	PION	RAYMOND	Lowell	5.5	18,667	37,334
0606 Z3	SHATNEY	STEVE	Walden	13.0	44,122	88,244
0606 Z4	SHATNEY	STEVE	Walden	6.0	20,364	40,728
0606 Z5	SHATNEY	STEVE	Glover	6.0	20,364	40,728
0606 Z6	SHATNEY	STEVE	Greensboro	7.3	24,776	49,552
0609 Z1	HOGAN	STEVE	Marshfield	3.4	11,540	23,079

**Agri-Mark dba Cabot Creamery
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 Approved Z-Fields - December 3, 2015**

Attachment C

FIELD	LAST NAME	FIRST NAME	TOWN	MAPPED ACREAGE	DAILY DISPOSAL LIMIT	ANNUAL DISPOSAL LIMIT
0611 Z1	NELSON	BRENDA	Hardwick	8.0	27,152	54,304
0612 Z1	JACOBS	SHARON	Albany	1.0	3,394	6,788
0612 Z2	JACOBS	SHARON	Albany	4.0	13,576	27,152
0613 Z2	LYON	HARVEY	Barton	4.0	13,576	27,152
0613 Z3	LYON	HARVEY	Barton	1.0	3,394	6,788
0614 Z1	DUNBAR	MARK	Craftsbury	8.0	27,152	54,304
0614 Z2	DUNBAR	MARK	Craftsbury	17.5	59,395	118,790
0614 Z3	DUNBAR	MARK	Craftsbury	19.0	64,486	128,972
0614 Z4	DUNBAR	MARK	Craftsbury	23.5	79,759	159,518
0616 Z1	LEANE	KAREN	Marshfield	7.0	23,758	47,516
0619 Z1	KOPECKY	BARRY	Marshfield	14.0	47,516	95,032
0619 Z2	KOPECKY	BARRY	Marshfield	14.5	49,213	98,426
0619 Z3	KOPECKY	BARRY	Marshfield	13.0	44,122	88,244
0620 Z1	GONYAW	BRUCE	Barton	16.5	56,001	112,002
0620 Z2	GONYAW	BRUCE	Barton	26.0	88,244	176,488
0620 Z3	GONYAW	BRUCE	Barton	6.0	20,364	40,728
0621 Z1	GONYAW	DEAN	Barton	15.0	50,910	101,820
0622 Z1	ELLIOTT	PAUL	Lyndon	4.5	15,273	30,546
0622 Z2	ELLIOTT	PAUL	Barton	4.1	13,915	27,831
0623 Z1	KOKOLETSOS	BASIL	Barton	See Note #1	See Note #2	See Note #3
0624 Z1	TOWN OF GLOVER		Glover	6.0	20,364	40,728
0624 Z2	TOWN OF GLOVER		Glover	5.0	16,970	33,940
0626 Z1	GONYAW	DANNY	Hardwick	4.7	15,952	31,904
0631 Z1	HOLTON	DAVE	Wolcott	13.3	45,140	90,280
0631 Z2	HOLTON	DAVE	Wolcott	4.5	15,273	30,546
0631 Z3	HOLTON	DAVE	Wolcott	4.0	13,576	27,152
0632 Z1	ROBINSON	THOMAS	Marshfield	17.0	57,698	115,396
0632 Z2	ROBINSON	THOMAS	Marshfield	14.0	47,516	95,032
0636 Z1	MACLURE	DAN	Barton	26.0	88,244	176,488
0636 Z2	MACLURE	DAN	Barton	13.0	44,122	88,244
0636 Z3	MACLURE	DAN	Barton	See Note #1	See Note #2	See Note #3
0636 Z4	MACLURE	DAN	Barton	12.0	40,728	81,456
0636 Z5	MACLURE	DAN	Barton	14.0	47,516	95,032
0636 Z6	MACLURE	DAN	Barton	17.0	57,698	115,396
0636 Z7	MACLURE	DAN	Barton	19.5	66,183	132,366
0638 Z1	BROWN	GARY	Hardwick	11.0	37,334	74,668
0638 Z2	BROWN	GARY	Hardwick	12.0	40,728	81,456
0638 Z3	BROWN	GARY	Hardwick	8.0	27,152	54,304
0638 Z4	BROWN	GARY	Hardwick	3.0	10,182	20,364
0638 Z5	BROWN	GARY	Hardwick	4.0	13,576	27,152
0639 Z1	KEELER	ANDY	Greensboro	23.0	78,062	156,124
0641 Z1	FERLAND	BRADLEY	Hardwick	7.0	23,758	47,516

**Agri-Mark dba Cabot Creamery
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 Approved Z-Fields - December 3, 2015**

Attachment C

FIELD	LAST NAME	FIRST NAME	TOWN	MAPPED ACREAGE	DAILY DISPOSAL LIMIT	ANNUAL DISPOSAL LIMIT
0642 Z1	POULIN	THEODORE	Hardwick	4.0	13,576	27,152
0646 Z1	RAWSON	MELVIN	Elmore	9.0	30,546	61,092
0648 Z1	BARTLETT	GERALD	Greensboro	20.0	67,880	135,760
0649 Z1	BAYNE	JOE	Calais	12.0	40,728	81,456
0649 Z2	BAYNE	JOE	Calais	6.0	20,364	40,728
0651 Z1	COLBURN	MARK	Glover	3.3	11,200	22,400
0651 Z2	COLBURN	MARK	Glover	21.0	71,274	142,548
0651 Z3	COLBURN	MARK	Glover	14.6	49,552	99,105
0651 Z4	COLBURN	MARK	Glover	5.8	19,685	39,370
0651 Z5	COLBURN	MARK	Glover	19.0	64,486	128,972
0652 Z1	CHOQUETTE	JASON	Glover	8.6	29,188	58,377
0653 Z1	FALCONER	BILL	Barton	11.2	38,013	76,026
0653 Z2	FALCONER	BILL	Barton	10.5	35,637	71,274
0653 Z3	FALCONER	BILL	Barton	7.4	25,116	50,231
0654 Z1	BROE	JOHN, JR	Barton	5.6	19,006	38,013
0654 Z2	BROE	JOHN, JR	Barton	7.3	24,776	49,552
0654 Z3	BROE	JOHN, JR	Barton	11.8	40,049	80,098
0654 Z4	BROE	JOHN, JR	Barton	17.1	58,037	116,075
0654 Z5	BROE	JOHN, JR	Barton	2.2	7,467	14,934
0654 Z6	BROE	JOHN, JR	Barton	5.4	18,328	36,655
0654 Z7	BROE	JOHN, JR	Barton	3.3	11,200	22,400
0655 Z3	DRAPER	JOHN	Elmore	20.0	67,880	135,760
0656 Z1	PUTVAIN	ALTON	Hardwick	3.3	11,200	22,400
0656 Z2	PUTVAIN	ALTON	Hardwick	3.4	11,540	23,079
0656 Z3	PUTVAIN	ALTON	Hardwick	3.9	13,237	26,473
0660 Z1	CHURCHILL	JOHNATHAN	Peacham	18.0	61,092	122,184
0660 Z2	CHURCHILL	JOHNATHAN	Peacham	8.0	27,152	54,304
0661 Z1	BUTTERFIELD	BOB	Barton	13.5	45,819	91,638
0661 Z2	BUTTERFIELD	BOB	Barton	14.3	48,534	97,068
0661 Z3	BUTTERFIELD	BOB	Barton	16.5	56,001	112,002
0661 Z4	BUTTERFIELD	BOB	Barton	7.2	24,437	48,874
0662 Z1	LEE	DAVID	Plainfield	5.0	16,970	33,940
0662 Z2	LEE	DAVID	Plainfield	4.5	15,273	30,546
0662 Z3	LEE	DAVID	Plainfield	7.0	23,758	47,516
0666 Z1	LAMBERTI	PETER	Barre Town	See Note #1	See Note #2	See Note #3
0667 Z1	SHAY	ROBERT	Greensboro	See Note #1	See Note #2	See Note #3
0668 Z1	HAMILL	MARY	Plainfield	5.5	18,667	37,334
0668 Z2	HAMILL	MARY	Plainfield	4.3	14,594	29,188
0668 Z3	HAMILL	MARY	Plainfield	2.7	9,164	18,328
0668 Z4	HAMILL	MARY	Plainfield	5.3	17,988	35,976
0668 Z5	HAMILL	MARY	Plainfield	3.1	10,521	21,043
0669 Z1	COVEY	THOMAS	Plainfield	13.5	45,819	91,638

**Agri-Mark dba Cabot Creamery
Indirect Discharge Permit ID-9-0043
Approved Z-Fields - December 3, 2015**

Attachment C

FIELD	LAST NAME	FIRST NAME	TOWN	MAPPED ACREAGE	DAILY DISPOSAL LIMIT	ANNUAL DISPOSAL LIMIT
0669 Z2	COVEY	THOMAS	Plainfield	6.8	23,079	46,158
0669 Z3	COVEY	THOMAS	Plainfield	2.0	6,788	13,576
0670 Z1	BARASCH	ROBERT	Plainfield	4.4	14,934	29,867
0670 Z2	BARASCH	ROBERT	Plainfield	3.0	10,182	20,364

Notes:

- (1) The Permittee shall calculate the acreage before the field is first used for land application.
- (2) The daily disposal limit is the calculated acreage multiplied by 3,394 gallons (0.125 inches/acre/day).
- (3) The annual disposal limit is the calculated acreage multiplied by 6,788 gallons (0.25 inches/acre).