CSLAP 2014 Lake Water Quality Summary: Melody Lake

General Lake Information

Location Town of Willet

County Cortland

Basin Susquehanna River Size 15.5 hectares (38.3 acres)

Lake Origins Augmented by 22' x 120' Dam (1902)

Watershed Area 425 hectares (1050 acres)

Retention Time0.2 yearsMean Depth2.1 metersSounding Depth4.7 meters

Public Access? no

Major Tributaries no named tribs

Lake Tributary To... Turner Brook to Willet Creek to Otselic River to Tioughnioga

River to Susquehanna River

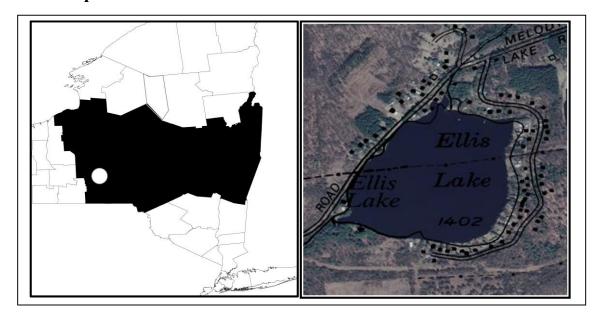
WQ Classification C (non-contact recreation = boating, angling)

Lake Outlet Latitude 42.469 **Lake Outlet Longitude** -75.878

Sampling Years 1987-1991, 1994, 1997-2014

2014 Samplers Bob Rosati
Main Contact Bob Rosati

Lake Map



Background

Melody Lake is a 38 acre, class C lake found in the Town of Willet in Cortland County, in central New York State. The lake was first sampled as part of CSLAP in 1987.

It is one of five CSLAP lakes among the more than 15 lakes found in Cortland County, and one of 24 CSLAP lakes among the more than 120 lakes and ponds in the Susquehanna River drainage basin.

Lake Uses

Melody Lake is a Class C lake; this means that the best intended use for the lake is for non-contact recreation, including fishing and boating, aquatic life, and aesthetics. The lake is used by lake residents for swimming, low power boating and other recreation via shoreline properties; the public does not have access to the lake.

It is not known whether Melody Lake has been stocked through any state fisheries stocking programs, or if any private stocking has occurred.

General statewide fishing regulations are applicable in Melody Lake.

Historical Water Quality Data

CSLAP sampling was conducted on Melody Lake from 1987 to 1991, 1994, and 1997 to 2014. The CSLAP reports for each of the past several years can be found on the NYSFOLA website at http://nysfola.mylaketown.com. The most recent CSLAP report and scorecard for Melody Lake can also be found on the NYSDEC web page at http://www.dec.ny.gov/lands/77876.html.

Melody Lake was not sampled as part of any of the major New York State water quality monitoring programs. It is not known if the lake was sampled in support of any fisheries management or other lake management activities conducted by state or local government. The Cortland County SWCD conducts DO profiles of the lake each year, and found DO depletion in the last meter of the lake in late summer of 2014.

There are no RIBS monitoring sites on or near Melody Lake, and none of the unnamed tributaries or the outlet (Turner Brook) has been sampled through any statewide monitoring programs.

Lake Association and Management History

Melody Lake is served by the Melody Lake Association, which serves 85 families. Although the lake was formed in the late 1800s, the lake association was formed in 1962. The lake association developed a lake management plan and State of the Lake report as part of the NYSFOLA small lake management program in 2002. Some of the lake management actions conducted by the lake association and supported as part of the plan include:

- Grass carp stocking to reduce the impacts from nuisance weeds
- Requiring buffer zones at shoreline of all association-owned property
- Installing sediment controls at inlet
- Setting up routine septic maintenance (inspection and pumpout) program
- Discouraging dumping compost in ditches
- Evaluating use of lake drawdown
- Public education within the lake residential community and local schools

Summary of 2014 CSLAP Sampling Results

Evaluation of 2014 Annual Results Relative to 1987-2013

The summer (mid-June through mid-September) average readings are compared to historical averages for all CSLAP sampling seasons in the "Lake Condition Summary" table, and are compared to individual historical CSLAP sampling seasons in the "Long Term Data Plots – Melody Lake" section in Appendix C.

Evaluation of Eutrophication Indicators

Each of the trophic indicators (water clarity, algae levels, and phosphorus readings) was close to normal, and none of these indicators has exhibited any significant changes. However, water clarity readings have decreased slightly over the last two decades, perhaps due to an increase in phosphorus readings since the late 1990s. Algae levels have not changed in the long term, although these readings appear to increase in four year cycles and then decrease. The reason for either the lack of a long-term change or these four year cycles is not known, but it is likely that the rise in phosphorus readings contributed to the drop in water clarity. Therefore management of phosphorus sources to the lake may be needed to improve water clarity.

Lake productivity steadily increases during the summer—water clarity decreases due to increasing nutrient and algae levels. This seasonal pattern also occurred in 2014.

The lake can continue to be characterized as *eutrophic*, or highly productive, based on water clarity, total phosphorus, and chlorophyll *a* readings (all indicative of *eutrophic* lakes). The trophic state indices (TSI) evaluation suggests that these indicators are "internally" consistent-each of these indicators can be predicted from the other indicators. This further indicates that increasing water clarity will require decreases in algae and phosphorus readings. Overall trophic conditions are summarized on the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Potable Water Indicators

Algae levels are high enough to render the lake susceptible to taste and odor compounds or elevated DBP (disinfection by product) compounds that could affect the potability of the water, but the lake is not used for drinking water. Hypolimnetic phosphorus and ammonia readings are similar to those measured at the lake surface, as expected given the weak thermal stratification in the lake. Potable water conditions, at least as measurable through CSLAP, are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Limnological Indicators

Conductivity readings were higher than normal, and deepwater ammonia was lower than usual in 2014, but no long-term changes in either indicator has occurred. pH readings have increased somewhat over the last 15 years, although these readings are still well within the acceptable range for most aquatic organisms. This might be related to a rise in algae levels in some years. It is likely that the small changes in each of the other limnological indicators (NOx, surface NH4, color and calcium) have been within the normal range of variability in the lake. Overall limnological conditions are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Biological Condition

Macrophyte surveys conducted through CSLAP and the recent DEC biomonitoring study showed a small number of aquatic plants, and at least two exotic plant species (*Myriophyllum spicatum*, Eurasian watermilfoil; and *Lythrum salicaria*, purple loosestrife) have been found in the lake. Sampling by The Nature Conservancy in 2014 also found *Nitellopsis obtusa* (starry stonewort, an exotic macroalga) in two locations, and Chinese mystery snail throughout the lake. The modified floristic quality index (FQI) data indicate that the quality of the aquatic plant community is "fair," and there is some evidence that the aquatic plant population has changed significantly since the grass carp stocking (as discussed below). It is not known if the Chinese mystery snail has affected lake ecology. The composition of the fish community in the lake has not been reported.

Zooplankton surveys have not been conducted through CSLAP at Melody Lake. The fluoroprobe screening samples analyzed by SUNY ESF indicated a low percentage of open water blue green algae when overall algae levels were low, and an increasing percentage of diatoms and green algae levels when open water algae levels rise. Shoreline blue green algae levels were highly elevated in 2013, but much lower in 2014, and a microscopic analysis of the 2013 samples showed *Microcystis*, *Woronichina*, *Anabaena*, and *Aphanizomenon*. All but the *Woronichina* are often associated with toxin production, and algal toxin levels in the blooms in 2013 were moderately high. However, all readings have been below the WHO criteria associated with unsafe swimming.

Biological conditions in the lake are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Lake Perception

Aquatic plant coverage was less extensive than normal in the last few years, and has decreased over the last 10-15 years. This is in response to the grass carp stocking. Water quality and recreational assessments were slightly less favorable over the last decade, consistent with higher algae levels and lower water clarity over the same period. Lake perception steadily degrades during the summer, a seasonal pattern consistent with seasonal increases in lake productivity and aquatic plant coverage (at least through late summer). This pattern was also observed in the last three years, although plant coverage was again low throughout the summer. Overall lake perception is summarized on the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Local Climate Change

Water temperature readings in the summer index period were slightly higher than normal in 2014, and water temperatures have increased slightly over the last twenty years. It is not known if this is an indication of local climate change or represents normal variability.

Evaluation of Algal Toxins

Algal toxin levels can vary significantly within blooms and from shoreline to lake, and the absence of toxins in a sample does not indicate safe swimming conditions. Phycocyanin readings were occasionally above the levels indicating susceptibility for harmful algal blooms (HABs) in recent years. This was consistent with fluoroprobe blue green algae levels that were occasionally elevated, and shoreline blooms at times show highly elevated blue green algae levels. However, most open water samples are dominated by other (diatoms and green) algae. An analysis of algae samples indicated open water and bloom microcystin readings low enough to support safe

swimming, although lake residents are advised to avoid contact with algal blooms or discolored water.

Lake Condition Summary

| Category | Indicator | Min | 87-14 Avg | Max | 2014 Avg | Classification | 2014 Change? | Long-term Change? |
|-----------------------------|-------------------------|-------|--------------|--------|-------------|---|---------------------|------------------------|
| Eutrophication | Water Clarity | 0.65 | 1.93 | 3.50 | 1.88 | Eutrophic | Within Normal Range | Decreasing? |
| Indicators | Chlorophyll a | 0.40 | 12.50 | 106.00 | 9.24 | Eutrophic | Within Normal Range | No Change |
| | Total Phosphorus | 0.004 | 0.021 | 0.069 | 0.023 | Eutrophic | Within Normal Range | Increasing? |
| Potable Water Indicators | Hypolimnetic Ammonia | 0.01 | 0.06 | 0.20 | 0.03 | Close to Surface NH4 Readings | Lower Than Normal | Not known |
| | Hypolimnetic Arsenic | | | | | | | Not known |
| | Hypolimnetic Iron | | | | | | | Not known |
| | Hypolimnetic Manganese | | | | | | | Not known |
| Limnological Indicators | Hypolimnetic Phosphorus | 0.014 | 0.026 | 0.064 | 0.030 | Close to Surface TP Readings | Within Normal Range | Not known |
| | Nitrate + Nitrite | 0.00 | 0.02 | 0.37 | 0.01 | Low NOx | Within Normal Range | No Change |
| | Ammonia | 0.00 | 0.05 | 0.27 | 0.03 | Low Ammonia | Within Normal Range | No Change |
| | Total Nitrogen | 0.10 | 0.54 | 1.01 | 0.47 | Intermediate Total Nitrogen | Within Normal Range | No Change |
| | рH | 6.32 | 7.47 | 9.15 | 7.63 | Circumneutral | Within Normal Range | No Change |
| | Specific Conductance | 38 | 82 | 195 | 93 | Softwater | Higher than Normal | No Change |
| | True Color | 2 | 25 | 76 | 25 | Intermediate Color | Within Normal Range | No Change |
| | Calcium | 6.8 | 9.1 | 12.3 | 8.6 | Not Susceptible to Zebra Mussels | Within Normal Range | No Change |
| Lake | WQ Assessment | 1 | 2.2 | 4 | 2.4 | Not Quite Crystal Clear | Within Normal Range | No Change |
| Perception | Aquatic Plant Coverage | 1 | 1.8 | 4 | 1.3 | Subsurface Plant Growth | Within Normal Range | Highly Decreasing |
| | Recreational Assessment | 1 | 2.4 | 5 | 2.5 | Excellent | Within Normal Range | No Change |
| Biological Condition | Phytoplankton | | | | | Open water-low blue green algae biomass; Shoreline-high blue green algae in bloom | Not known | Not known |
| | Macrophytes | | | | | Fair quality of aquatic plant community | Not known | Not known |
| | Zooplankton | | | | | Not measured through CSLAP | Not known | Not known |
| | Macroinvertebrates | | | | | 2009 data not yet analyzed | Not known | Not known |
| | Fish | | | | | Not reported | Not known | Not known |
| | Invasive Species | | | | | Chinese mystery snail, Eurasian watermilfoil, starry stonewort, purple loosestrife | Not known | Not known |
| Local Climate Change | Air Temperature | 3 | 22.0 | 34 | 21.8 | | Within Normal Range | No Change |
| | Water Temperature | 9 | 22.6 | 29 | 23.5 | | Within Normal Range | Increasing Slightly |

| Category | Indicator | Min | 87-14 Avg | Max | 2014 Avg | Classification | 2014 Change? | Long-term Change? |
|-------------------------|------------------------|--|--|--|--|--|--------------|----------------------|
| Harmful Algal Blooms | Open Water Phycocyanin | 1 | 34 | 170 | 9 | Most readings indicate low risk of BGA | Not known | Not known |
| | Open Water FP Chl.a | 1 | 7 | 27 | 4 | Few readings indicate high algae levels | Not known | Not known |
| | Open Water FP BG Chl.a | 0 | 1 | 7 | 1 | No readings indicate high BGA levels | Not known | Not known |
| | Open Water Microcystis | 0.0 | 0.2 | 0.5 | <0.30 | Mostly undetectable open water MC-LR | Not known | Not known |
| | Open Water Anatoxin a | <dl< td=""><td><dl< td=""><td><dl< td=""><td><dl< td=""><td>Open water Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<></td></dl<> | <dl< td=""><td><dl< td=""><td><dl< td=""><td>Open water Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<> | <dl< td=""><td><dl< td=""><td>Open water Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<> | <dl< td=""><td>Open water Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<> | Open water Anatoxin-a consistently not detectable | Not known | Not known |
| | Shoreline Phycocyanin | 251120 | 251120 | 251120 | | All readings indicate high risk of BGA | Not known | Not known |
| | Shoreline FP Chl.a | 11 | 796 | 2165 | 11 | Most readings indicate high algae levels | Not known | Not known |
| | Shoreline FP BG Chl.a | 5 | 626 | 1704 | 5 | Most readings indicate high BGA levels | Not known | Not known |
| | Shoreline Microcystis | 0.8 | 3.5 | 11.3 | <dl< td=""><td>At times measurable shoreline bloom MC-LR</td><td>Not known</td><td>Not known</td></dl<> | At times measurable shoreline bloom MC-LR | Not known | Not known |
| | Shoreline Anatoxin a | <dl< td=""><td><dl< td=""><td><dl< td=""><td><dl< td=""><td>Shoreline bloom Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<></td></dl<> | <dl< td=""><td><dl< td=""><td><dl< td=""><td>Shoreline bloom Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<> | <dl< td=""><td><dl< td=""><td>Shoreline bloom Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<> | <dl< td=""><td>Shoreline bloom Anatoxin-a consistently not detectable</td><td>Not known</td><td>Not known</td></dl<> | Shoreline bloom Anatoxin-a consistently not detectable | Not known | Not known |

Evaluation of Lake Condition Impacts to Lake Uses

The 2008 NYSDEC Priority Waterbody Listings (PWL) for the Susquehanna River drainage basin indicated that *recreation* is *stressed* in Melody Lake due to excessive algae and weeds. The PWL listing for Melody Lake is listed in Appendix B.

Potable Water (Drinking Water)

The CSLAP dataset at Melody Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, is inadequate to evaluate the use of the lake for potable water, and the lake is not used for this purpose. Any "unofficial" use would be threatened by excessive algae and the risk of cyanobacterial blooms.

Contact Recreation (Swimming)

The CSLAP dataset at Melody Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggests that swimming and contact recreation may be *impaired* by excessive algae, poor water clarity, and shoreline harmful algal blooms, although these impacts may have been lower in 2014. Additional information about bacterial levels is needed to evaluate the safety of the water for swimming.

Non-Contact Recreation (Boating and Fishing)

The CSLAP dataset on Melody Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that non-contact recreation is supported, although this use was *threatened* by excessive weeds (Eurasian watermilfoil) prior to the grass carp stocking.

Aquatic Life

The CSLAP dataset on Melody Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that aquatic life may be *threatened* by the presence of Eurasian watermilfoil and the lack of overall plant structure. However, additional data are needed to evaluate the food and habitat conditions for aquatic organisms in the lake.

Aesthetics

The CSLAP dataset on Melody Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that aesthetics may be *threatened* by algal blooms, with *stressed* conditions possible near actual blooms.

Fish Consumption

There are no fish consumption advisories posted for Melody Lake.

Additional Comments and Recommendations

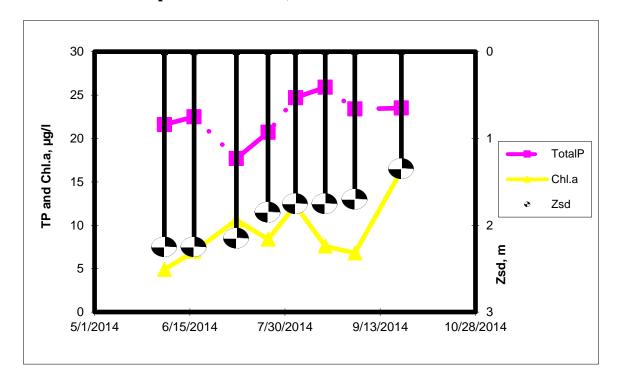
The continued evaluation of the 2009 lake biomonitoring survey results and the floristic quality index will help to determine if aquatic life in the lake has been compromised by excessive nutrients or other stressors. Lake residents should continue to report (and avoid exposure to) any shoreline blooms. The rise in phosphorus levels, perhaps contributing to the drop in water clarity, should continue to be evaluated.

Aquatic Plant IDs-2014

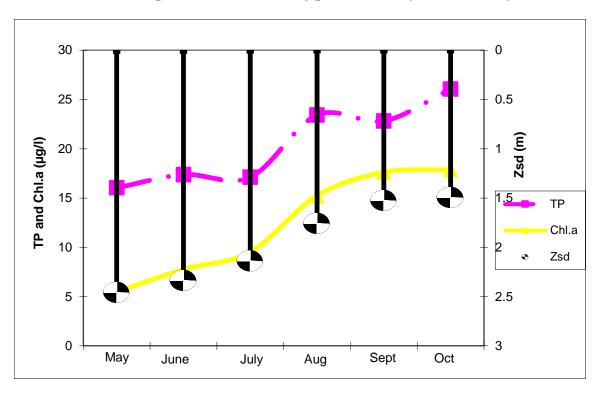
The following aquatic plants were submitted for identification in 2014:

| Common name | Scientific Name | Status |
|---------------------|-------------------------|---------|
| Aquatic moss | Fontinalis sp | native |
| Snail seed pondweed | Potamogeton bicupulatus | native |
| Filamentous algae | none | native? |

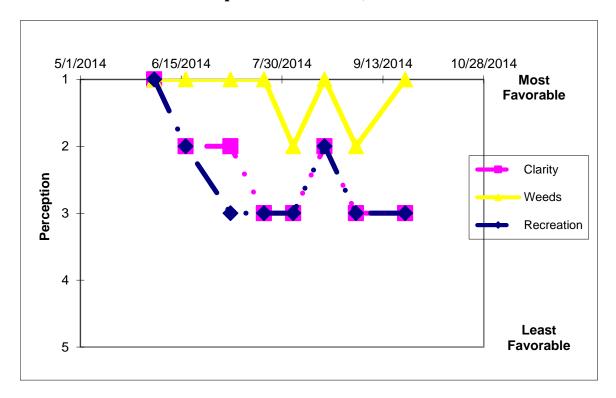
Time Series: Trophic Indicators, 2014



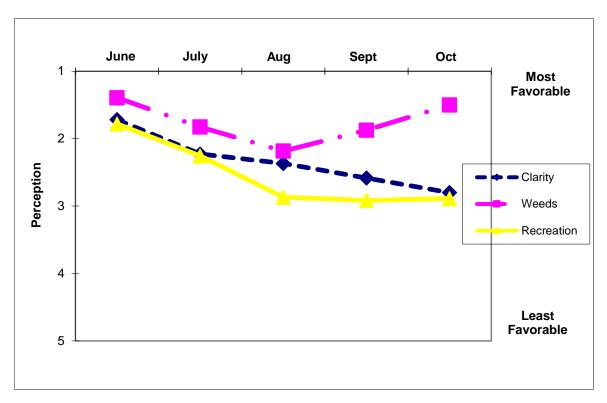
Time Series: Trophic Indicators, Typical Year (1987-2014)



Time Series: Lake Perception Indicators, 2014



Time Series: Lake Perception Indicators, Typical Year (1987-2014)



Appendix A- CSLAP Water Quality Sampling Results for Melody Lake

| LNum | PName | Date | Zbot | Zsd | Zsamp | Tot.P | NO3 | NH4 | TDN | TN/TP | TColor | рН | Cond25 | Ca | Chl.a |
|----------|----------------------|------------------------|------|--------------|-------|-------|------|-----|-----|-------|--------|--------------|----------|----|--------|
| 31 | Melody L | 6/12/1987 | | 1.50 | 1.5 | 0.023 | | | | | 22 | 7.75 | 62 | | 17.70 |
| 31 | Melody L | 6/21/1987 | 2.5 | 1.30 | 1.5 | 0.034 | 0.01 | | | | 23 | 7.32 | 71 | | 15.30 |
| 31 | Melody L | 6/28/1987 | 2.5 | 1.30 | 1.5 | 0.039 | 0.01 | | | | 24 | 6.70 | 77 | | 34.00 |
| 31 | Melody L | 7/5/1987 | 2.5 | 1.50 | 1.5 | 0.044 | 0.01 | | | | 23 | 6.80 | 76 | | |
| 31 | Melody L | 7/12/1987 | 2.5 | 1.35 | 1.5 | 0.029 | 0.01 | | | | 21 | 6.92 | 77 | | 23.70 |
| 31 | Melody L | 7/19/1987 | 2.5 | 1.05 | 1.5 | 0.015 | | | | | 23 | 6.92 | 76 | | 27.40 |
| 31 | Melody L | 7/26/1987 | 2.5 | 1.35 | 1.5 | 0.030 | | | | | 26 | 7.25 | 77 | | 18.60 |
| 31 | Melody L | 8/3/1987 | 2.5 | 1.00 | 1.5 | 0.039 | | | | | 23 | 6.97 | 74 | | 32.60 |
| 31 | Melody L | 8/9/1987 | 2.8 | 1.35 | 1.5 | 0.040 | | | | | 23 | 6.98 | 76 | | 25.90 |
| 31 | Melody L | 8/16/1987 | 2.5 | 0.75 | 1.5 | 0.069 | | | | | 23 | | | | 106.00 |
| 31 | Melody L | 8/23/1987 | 2.5 | 0.65 | 1.5 | 0.048 | 0.01 | | | | 24 | 6.89 | 74 | | |
| 31 | Melody L | 8/30/1987 | 2.5 | 0.95 | 1.5 | 0.044 | | | | | 20 | 7.24 | 71 | | |
| 31 | Melody L | 9/13/1987 | 2.8 | 1.20 | 1.5 | 0.036 | | | | | | 7.19 | 76 | | |
| 31 | Melody L | 9/20/1987 | 2.9 | 1.00 | 1.5 | 0.031 | | | | | | 6.79 | 82 | | |
| 31 | Melody L | 9/27/1987 | 3.3 | 1.20 | 1.5 | 0.016 | | | | | | 6.89 | 82 | | |
| 31 | Melody L | 10/4/1987 | 3.5 | 1.60 | 1.5 | 0.027 | | | | | | 7.24 | 81 | | 0.40 |
| 31 | Melody L | 6/17/1988 | 4.5 | 2.88 | 1.5 | 0.020 | | | | | 19 | 7.70 | 94 | | 5.18 |
| 31 | Melody L | 6/26/1988 | 4.0 | 2.00 | 1.5 | 0.016 | | | | | 18 | 7.58 | 88 | | 8.73 |
| 31 | Melody L | 7/3/1988 | 3.0 | 1.35 | 1.5 | 0.019 | | | | | 16 | 7.60 | 98 | | 12.00 |
| 31 | Melody L | 7/10/1988 | 4.3 | 2.35 | 1.5 | 0.014 | | | | | 15 | 7.83 | 93 | | 4.29 |
| 31 | Melody L | 7/17/1988 | 4.5 | 3.10 | 1.5 | 0.017 | 0.01 | | | | 15 | 7.61 | 89 | | 5.55 |
| 31 | Melody L | 7/24/1988 | 4.5 | 3.00 | 1.5 | 0.016 | 0.0. | | | | 16 | 7.79 | 91 | | 6.29 |
| 31 | Melody L | 7/29/1988 | 4.5 | 2.75 | 1.5 | 0.014 | 0.01 | | | | 15 | 7 | | | 6.44 |
| 31 | Melody L | 8/7/1988 | 4.5 | 2.00 | 1.5 | 0.013 | | | | | 16 | 8.24 | 87 | | 15.60 |
| 31 | Melody L | 8/14/1988 | 2.3 | 2.30 | 1.5 | 0.016 | 0.00 | | | | 10 | 7.41 | 87 | | 10.40 |
| 31 | Melody L | 8/21/1988 | 2.5 | 2.55 | 1.5 | 0.020 | | | | | 22 | 7.74 | 97 | | 8.26 |
| 31 | Melody L | 8/28/1988 | 4.5 | 1.45 | 1.5 | 0.025 | 0.01 | | | | 18 | 7.60 | 97 | | 16.30 |
| 31 | Melody L | 9/4/1988 | 4.5 | 1.35 | 1.5 | 0.025 | | | | | 15 | 7.58 | 94 | | 15.50 |
| 31 | Melody L | 9/11/1988 | 4.5 | 1.40 | 1.5 | 0.023 | | | | | 14 | 7.07 | 95 | | 15.50 |
| 31 | Melody L | 9/18/1988 | 4.5 | 1.60 | 1.5 | 0.021 | | | | | 12 | 7.54 | 95 | | 14.20 |
| 31 | Melody L | 9/25/1988 | 4.5 | 2.00 | 1.5 | 0.020 | | | | | 14 | 7.90 | 100 | | 13.40 |
| 31 | Melody L | 7/2/1989 | 4.5 | 2.60 | 1.5 | 0.017 | 0.01 | | | | 26 | 6.88 | 83 | | 8.50 |
| 31 | Melody L | 7/9/1989 | 4.5 | 2.45 | 1.5 | 0.017 | | | | | 22 | 7.47 | 82 | | 7.79 |
| 31 | Melody L | 7/16/1989 | 4.5 | 2.25 | 1.5 | 0.016 | | | | | 25 | 7.21 | 80 | | 6.16 |
| 31 | Melody L | 7/23/1989 | 4.5 | 1.80 | 1.5 | 0.018 | | | | | 25 | 7.39 | 81 | | 7.98 |
| 31 | Melody L | 7/26/1989 | 4.5 | 1.00 | 1.5 | 0.010 | 0.01 | | | | 23 | 7.29 | 84 | | 6.73 |
| 31 | Melody L | 7/30/1989 | 4.3 | 1.65 | 1.5 | 0.021 | | | | | 17 | 7.71 | 85 | | 7.03 |
| 31 | Melody L | 8/5/1989 | 4.3 | 1.25 | 1.5 | 0.024 | 0.01 | | | | 17 | 7.54 | 85 | | 9.75 |
| 31 | Melody L | 8/13/1989 | 4.3 | 1.35 | 1.5 | 0.017 | | | | | 20 | 7.58 | 86 | | 11.30 |
| 31 | Melody L | 8/20/1989 | 4.5 | 1.30 | 1.5 | 0.017 | | | | | 15 | 7.85 | 86 | | 14.20 |
| 31 | Melody L | 8/27/1989 | 4.5 | 1.35 | 1.5 | 0.029 | 0.01 | | | | 15 | 7.77 | 89 | | 11.60 |
| 31 | Melody L | 9/4/1989 | 4.5 | 0.90 | 1.5 | 0.018 | 0.01 | | | | 17 | 7.45 | 89 | | 19.20 |
| 31 | Melody L | 9/10/1989 | 4.3 | 1.00 | 1.5 | 0.022 | | | | | 17 | 7.66 | 89 | | 22.20 |
| 31 | | 9/17/1989 | | 1.05 | 1.5 | 0.022 | | | | | 17 | | 90 | | 15.90 |
| 31 | Melody L | 9/17/1989 | | 1.05 | 1.5 | 0.019 | | | | | 22 | 7.59 7.51 | 90 | | 18.40 |
| 31 | Melody L | 7/8/1990 | | 1.70 | 1.5 | 0.026 | | | | | 15 | | 82 | | 12.90 |
| 31 | Melody L | | 4.5 | | 1.5 | 0.017 | 0.01 | | | | 18 | 7.39 6.99 | 82 | | 8.32 |
| 31 | Melody L | 7/15/1990 7/29/1990 | 4.5 | 1.50 1.55 | 1.5 | 0.017 | 0.01 | | | | 15 | 7.93 | 83 | | 5.78 |
| 31 | Melody L | 8/12/1990 | | | | 0.012 | 0.01 | | | | 13 | 7.85 | | | 11.20 |
| | | | 4.5 | 1.35 | 1.5 | | 0.04 | | | | 14 | | 84 38 | | |
| 31 | Melody L | 8/26/1990 | 4.5 | 1.90 | 1.5 | 0.021 | 0.01 | | | | | 6.61 | | | 32.50 |
| 31 | Melody L | 9/9/1990 | | 1.25 | 1.5 | | 0.04 | | | | 16 | 7.49 | 52 | | 12.70 |
| 31 | Melody L | 9/23/1990 | 4.5 | 1.30 | 1.5 | 0.019 | | | | | 15 | 7.42 | 86 | | 22.60 |
| 31 | Melody L | 6/16/1991 | 4.5 | 1.70 | 1.5 | 0.016 | 0.01 | | | | 24 | 6.99 | 75 77 | | 12.60 |
| 31 | Melody L | 6/30/1991 | | 1.95 | 1.5 | 0.013 | 0.04 | | | | 17 | 7.75 | 77 | | 7.03 |
| 31 | Melody L | 7/14/1991 | 4.2 | 1.55 | 1.5 | 0.021 | 0.01 | | | | 13 | 7.13 | 79 | | 9.58 |
| 31 | Melody L | 7/28/1991 | 4.2 | 1.20 | 1.5 | 0.014 | | | | | 15 | 7.61 | 79 | | 17.20 |
| 31 | Melody L | 8/11/1991 | 4.2 | 0.95 | 1.5 | 0.020 | 0.04 | | | | 17 | 7.42 | 81 | | 22.70 |
| 31 | Melody L | 8/25/1991 | 4.2 | 1.35 | 1.5 | 0.014 | 0.01 | | | | 15 | 7.44 | 83 | | 9.95 |
| 31 | Melody L | 9/15/1991 | 4.3 | 1.40 | 1.5 | 0.021 | 0.04 | | | | 12 | 7.75 | 85 | | 29.00 |
| 31 | Melody L | 9/22/1991 | 4.3 | 1.30 | 1.5 | 0.022 | U.U1 | | | | 6 | 7.66 | 86 | | 26.20 |
| 31 | Melody L | 6/18/1994 | 4.3 | 2.95 | | | | | | | | | | | |
| 31 31 | Melody L Melody L | 7/3/1994 7/18/1994 | 4.3 | 2.50 | | | | | | | | | | | |
| | | | | | | | | | | i l | | | | | |

| | LNum | PName | Date | Zbot | Zsd | Zsamp | Tot.P | NO3 | NH4 | TDN | TN/TP | TColor | На | Cond25 | Ca | Chl.a |
|--|------|----------|-----------|------|------|-------|-------|------|------|------|--------|--------|------|--------|-----|-------|
| 31 Melody L 878/1994 4.3 2.60 3.00 1.50 0.014 0.014 0.015 7.60 77 12.40 31 Melody L 671/51/987 4.2 3.05 1.5 0.010 0.01 0.01 1.5 7.46 78 4.14 4.1 | | | | | | | | | | | | | | | | |
| | 31 | | 8/14/1994 | 4.3 | | | | | | | | | | | | |
| 31 Melody L 67/51997 44 3.00 1.5 0.010 0.01 1.5 7.46 78 4.14 31 Melody L 67/21997 4.3 3.06 1.5 0.010 0.01 1.5 7.62 81 4.14 31 Melody L 77/31997 4.3 2.65 0.014 0.01 1.5 6.84 84 5.73 31 Melody L 77/31997 4.3 2.65 0.014 0.01 1.5 6.84 89 7.14 31 Melody L 87/41997 4.1 2.53 1.5 0.016 0.01 1.4 7.71 87 5.94 31 Melody L 87/41997 4.2 1.65 1.5 0.016 0.01 1.2 7.56 87 14.04 31 Melody L 87/41998 4.2 1.86 1.5 0.016 0.01 1.5 7.69 88 9.98 31 Melody L 57/201998 4.2 2.38 1.5 0.010 0.01 1.5 7.69 88 9.98 31 Melody L 57/201998 4.3 2.5 5.5 0.010 0.01 1.9 7.74 74 5.59 31 Melody L 77/201998 4.3 2.5 5.5 0.01 0.01 1.9 7.74 74 5.59 31 Melody L 77/201998 3.3 2.73 1.5 0.020 0.01 1.9 7.74 74 5.59 31 Melody L 77/201998 3.4 3.0 5.5 0.01 0.01 1.2 2.4 7.56 7.7 4.14 31 Melody L 77/201998 3.3 2.30 1.5 0.01 0.01 2.2 7.68 7.7 4.14 31 Melody L 87/201998 3.3 2.30 1.5 0.01 0.01 2.2 7.68 7.7 4.14 31 Melody L 87/201998 3.3 2.01 1.5 0.01 2.2 7.68 7.7 4.14 31 Melody L 87/201999 3.3 2.01 1.5 0.01 2.2 7.68 7.7 4.14 31 Melody L 87/201999 3.3 2.01 1.5 0.01 2.2 7.67 7.9 6.01 31 Melody L 87/201999 3.3 2.01 1.5 0.01 2.2 7.67 7.9 6.01 31 Melody L 87/201999 3.3 2.0 1.5 0.01 2.2 7.67 7.9 6.01 31 Melody L 87/201999 3.3 2.0 1.5 0.01 0.01 1.7 6.77 8.9 7.7 31 Melody L 87/20199 3.3 2.0 1.5 0.016 0.01 1.7 6.77 8.9 7.7 31 Melody L 87/20199 3.3 2.0 1.5 0.016 0.01 1.7 6.77 8.9 7.50 31 Melody L 87/2020 3.3 3.0 1.5 0.016 0.01 1.7 6.77 8.9 7.50 31 Melody L 87/2020 3.3 3.0 1.5 0.016 0.01 | 31 | Melody L | 8/28/1994 | 4.3 | | | | | | | | | | | | |
| 31 Melody L 713/1997 24, 33 15 0,004 0,01 15 6,84 84 5,73 31 Melody L 713/1997 23, 35 15 0,0024 0,01 15 6,84 84 85,73 31 Melody L 871/1997 42, 25 15 0,011 0,01 14 7,71 87 5,94 31 Melody L 871/1997 42, 25 15 0,011 0,01 14 7,71 87 5,94 31 Melody L 871/1997 42, 165 1,5 0,016 0,01 15 7,69 88 7,14 40 31 Melody L 871/1997 42, 165 1,5 0,017 0,01 15 7,69 88 7,14 40 31 Melody L 871/1998 42, 238 1,5 0,010 0,01 15 7,99 88 7,14 40 40 40 40 40 40 40 | | Melody L | | 4.8 | | 1.5 | 0.018 | 0.04 | | | | 20 | | | | 12.40 |
| 31 Melody L 72/17997 4.3 2.65 0.014 0.01 1.5 6.84 84 5.73 5.94 1.5 1 | | | | 4.2 | | | | | | | | | 7.46 | | | 4.14 |
| 31 Melody L 87/19/19/7 42 253 1.5 0.011 0.01 1.14 7.71 87 5.94 | | | | 4.4 | | | | | | | | | | | | |
| 31 Melody L 81/01/997 4.2 2.63 1.5 0.011 0.01 1.12 7.56 87 1.4.00 | | | | | | 1.5 | | | | | | | | | | |
| Melody L 8/24/1997 4.2 1.66 1.5 0.016 0.01 1.5 7.98 88 9.98 31 Melody L 9/30/1998 4.2 2.38 1.5 0.010 0.01 1.5 7.79 76 1.58 31 Melody L 6/36/1998 4.3 2.73 1.5 0.020 0.01 1.97 7.4 7.4 8.59 31 Melody L 6/36/1998 4.3 2.05 1.5 0.010 0.01 1.97 7.4 7.4 8.59 31 Melody L 7/26/1988 4.3 2.05 1.5 0.011 1.0 2.5 7.68 7.7 6.65 31 Melody L 7/26/1988 4.3 2.05 1.5 0.011 2.24 7.58 7.7 6.65 31 Melody L 7/26/1988 4.3 2.35 1.5 0.011 2.24 7.58 7.7 4.41 33 Melody L 8/26/1989 4.3 2.30 1.5 0.011 2.24 7.60 78 4.41 33 Melody L 8/26/1989 4.3 2.30 1.5 0.011 2.24 7.70 78 4.51 4.51 33 Melody L 8/26/1989 4.3 2.30 1.5 0.011 2.24 7.74 78 2.20 3.03 Melody L 8/26/1989 4.3 2.05 1.5 0.011 2.24 7.74 78 2.20 3.03 Melody L 5/31/1989 4.5 2.88 1.5 0.015 0.01 1.6 7.43 87 4.98 33 Melody L 6/26/1989 4.3 2.05 1.5 0.013 0.01 1.6 6.61 88 4.32 2.03 31 Melody L 6/26/1989 4.3 2.05 1.5 0.016 0.01 1.17 7.63 88 3.20 31 Melody L 7/26/1989 4.3 2.05 1.5 0.016 0.01 1.17 7.63 88 3.20 31 Melody L 7/26/1989 4.3 2.05 1.5 0.016 0.01 1.17 7.67 89 1.750 31 Melody L 7/26/1989 4.3 2.05 1.5 0.016 0.01 1.17 7.67 89 1.750 31 Melody L 7/26/1989 4.4 2.48 1.5 0.014 0.01 1.2 2.48 3.8 3.20 31 Melody L 7/26/1989 4.4 2.48 1.5 0.014 0.01 1.2 2.48 3.8 3.20 31 Melody L 8/27/1999 4.4 2.48 1.5 0.014 0.01 1.2 2.48 3.8 3.20 31 Melody L 8/27/1999 4.2 2.05 1.5 0.016 0.01 1.2 2.76 3.3 4.03 31 Melody L 8/27/2900 4.0 1.5 0.016 0.01 1.5 0.016 0.01 1.7 7.92 9.6 5.85 31 Melody L 8/29/2000 4.0 1.5 0.016 0.01 3.37 7.77 7.77 7.79 9.5 3.3 Melody L 8/29/2000 4.0 | | | | | | | | | | | | | | | | |
| 31 Melody L 98/1997 41 1.95 1.5 0.017 0.01 1.6 7.69 88 9.98 31 Melody L 53/01998 42 2.38 1.5 0.010 0.01 1.6 7.70 7.6 7.70 7.6 7.5 7. | | | | | | | | | | | | | | | | |
| Melody L 6/30/1988 4.2 2.38 1.5 0.010 0.01 1.9 7.74 7.7 7.6 1.58 | | | | | | | | | | | | | | | | |
| 31 Melody L 676/1998 43 2.73 1.5 0.020 0.01 19 7.74 74 8.59 | | | | | | | | | | | | | | | | |
| 31 Melody L 7/26/1998 4.3 2.05 1.5 0.01 0.01 2.5 7.68 7.4 7.7 5.65 | | | | | | | | | | | | | | | | |
| 31 Melody L 7/12/1998 4.4 1.90 1.5 0.01 25 7.68 74 6.27 | | | | | | | 0.020 | | | | | | | | | |
| 31 Melody L 8/81998 4.3 2.35 1.5 0.01 24 7.58 77 4.41 | | | | | | | | | | | | | | | | |
| 31 Melody L 89/1998 4.3 2.30 1.5 0.01 0.1 2.4 7.60 78 4.14 | | | | | | | | | | | | | | | | |
| 31 Melody L 97/1999 4.2 1.5 0.018 | | | | | | | | | | | | | | | | |
| 31 Melody L 53/199 42 1.80 1.5 0.018 0.015 0.01 16 7.47 82 20.30 31 Melody L 63/1999 4.4 2.60 1.5 0.013 0.01 16 6.61 88 4.32 31 Melody L 67/3/1999 4.3 3.20 1.5 0.014 0.01 11 7.63 88 3.20 31 Melody L 71/1/1999 4.3 3.20 1.5 0.016 0.01 17 6.77 89 17.50 31 Melody L 77/1/1999 4.4 2.48 1.5 0.014 0.01 12 8.43 88 7.15 7.31 Melody L 87/1/1999 4.4 2.48 1.5 0.014 0.01 12 8.43 88 7.15 7.31 Melody L 87/1/1999 4.2 1.90 1.5 0.014 0.01 18 8.00 95 12.60 31 Melody L 87/1/1999 4.2 1.90 1.5 0.019 0.01 18 8.00 95 12.60 31 Melody L 87/1/1999 4.2 1.90 1.5 0.014 0.01 17 7.63 96 5.68 31 Melody L 87/2/1999 4.2 1.90 1.5 0.014 0.01 17 7.80 96 5.68 31 Melody L 87/2/200 4.0 1.90 1.5 0.014 0.01 17 7.80 70 5.68 31 Melody L 67/2/200 4.0 1.90 1.5 0.016 0.01 337 7.77 77 77 7.5 5.65 31 Melody L 67/2/200 4.0 1.90 1.5 0.016 0.01 337 7.77 77 77 79 9.5 31 Melody L 87/2/200 4.0 1.90 1.5 0.015 0.01 337 7.77 77 77 9.95 31 Melody L 87/2/200 4.0 1.90 1.5 0.015 0.01 337 7.77 77 77 9.95 31 Melody L 87/2/200 4.0 1.90 1.5 0.015 0.01 337 7.77 77 77 9.95 31 Melody L 87/2/200 4.0 1.90 1.5 0.015 0.01 337 7.77 77 77 9.95 31 Melody L 87/2/200 4.0 1.90 1.5 0.015 0.01 337 7.77 77 77 9.95 31 Melody L 87/2/200 4.0 2.20 1.5 0.017 0.01 330 6.66 84 7.30 31 Melody L 87/2/200 4.0 2.20 1.5 0.017 0.01 330 6.66 84 7.30 31 Melody L 87/2/2001 3.9 2.10 1.5 0.017 0.01 37 7.77 7.77 7.77 7.9 9.35 31 Melody L 87/2/2001 3.9 2.10 1.5 0.017 0.01 37 7.77 7.78 8.35 7.30 31 Melody L 87/2/2001 3.9 2.10 1.5 0.017 0.01 3.77 3.9 | | | | | | | | | | | | | | | | |
| 31 Melody L 6/13/1999 44. 2.88 1.5 0.015 0.01 16 6.61 88 4.32 | | | | | | | 0.018 | | | | | | | | | |
| 31 Melody L 6/3/1999 4.4 2.60 1.5 0.014 0.01 | | Melody L | 5/31/1999 | 4.5 | | 1.5 | | 0.01 | | | | 16 | 7.43 | | | 4.98 |
| 31 Melody L 7/11/1999 4.5 2.30 1.5 0.016 0.01 17 6.77 89 17.50 31 Melody L 8/726/1999 4.4 2.48 1.5 0.014 0.01 2 2 7.61 93 4.03 31 Melody L 8/771999 4.2 1.90 1.5 0.019 0.01 18 8.00 95 12.60 31 Melody L 8/22/1999 4.2 1.90 1.5 0.019 0.01 17 7.82 96 5.85 31 Melody L 5/29/2000 4.1 1.90 1.5 0.018 0.01 35 7.41 69 4.45 31 Melody L 5/29/2000 4.0 1.90 1.5 0.018 0.01 35 7.41 69 4.45 31 Melody L 6/12/2000 4.0 1.90 1.5 0.014 0.01 37 7.94 74 5.40 31 Melody L 6/25/2000 4.0 1.90 1.5 0.014 0.01 37 7.77 77 9.95 31 Melody L 6/25/2000 4.0 1.90 1.5 0.014 0.01 37 7.77 77 9.95 31 Melody L 8/72/2000 4.0 1.90 1.5 0.014 0.01 37 7.77 77 9.95 31 Melody L 8/72/2000 4.0 1.90 1.5 0.015 0.01 37 7.77 77 9.95 31 Melody L 8/72/2000 4.0 2.20 1.5 0.015 0.01 33 7.02 79 8.35 31 Melody L 8/72/2000 4.0 2.20 1.5 0.017 0.01 33 7.02 79 8.35 31 Melody L 8/20/2000 4.1 2.30 1.5 0.017 0.01 33 7.40 80 7.50 33 Melody L 8/20/2000 3.9 1.90 1.5 0.017 0.01 33 4.66 75 18.40 31 Melody L 8/20/2001 4.2 2.55 1.5 0.014 0.01 17 7.36 7.30 7. | | Melody L | | | | | | | | | | 16 | | | | |
| Melody L 7/26/1999 4.4 2.48 1.5 0.014 0.01 | | | | | | | | | | | | | | | | |
| Melody L 87/1999 4.2 1.90 1.5 0.022 0.01 | | | | | | | | | | | | | | | | |
| 31 Melody L 8/22/1999 4.2 1.90 1.5 0.019 0.01 18 8.00 95 12.60 31 Melody L 5/29/2000 4.1 1.90 1.5 0.014 0.01 37 7.82 96 5.85 31 Melody L 5/29/2000 4.1 1.90 1.5 0.016 0.01 31 7.80 70 5.65 31 Melody L 6/12/2000 4.0 1.90 1.5 0.016 0.01 31 7.80 70 5.65 31 Melody L 6/25/2000 4.0 1.90 1.5 0.016 0.01 37 7.77 77 77 9.95 31 Melody L 7/10/2000 4.3 2.00 1.5 0.015 0.01 37 7.77 77 77 9.95 31 Melody L 7/23/2000 4.0 1.90 1.5 0.012 0.01 33 7.02 79 8.35 31 Melody L 8/20/2000 3.9 1.90 1.5 0.017 0.01 33 7.02 79 8.35 31 Melody L 8/20/2000 3.9 1.90 1.5 0.021 0.01 33 7.02 79 8.35 31 Melody L 8/20/2000 3.9 1.90 1.5 0.021 0.01 34 7.40 80 7.50 31 Melody L 8/20/2001 4.1 2.30 1.5 0.021 0.01 30 6.66 84 7.30 31 Melody L 6/24/2001 4.2 2.55 1.5 0.017 0.01 30 6.66 84 7.30 31 Melody L 6/24/2001 4.2 1.60 1.5 0.028 0.37 30 6.86 84 7.30 31 Melody L 6/24/2001 4.2 1.60 1.5 0.028 0.37 30 6.86 84 7.30 31 Melody L 7/23/2001 3.9 2.10 1.5 0.015 0.07 2.2 7.43 77 7.50 31 Melody L 8/6/2001 3.9 2.10 1.5 0.015 0.07 2.2 7.43 77 7.50 31 Melody L 8/6/2001 3.9 2.90 1.5 0.011 0.01 37 7.51 82 31 Melody L 9/9/2001 3.5 2.30 1.5 0.014 0.01 2.77 7.18 82 31 Melody L 9/9/2001 3.5 2.30 1.5 0.016 0.01 37 7.51 84 9.12 31 Melody L 9/9/2001 3.5 2.30 1.5 0.016 0.01 37 7.51 82 31 Melody L 9/9/2001 3.5 2.30 1.5 0.016 0.01 37 7.51 82 31 Melody L 9/9/2001 3.5 2.30 1.5 0.016 0.01 37 7.51 82 31 Melody L 9/9/2001 3.5 2.30 1.5 0.016 0.01 0.02 0.55 5.56 4.4 7.19 8.2 14.84 31 Melody L 9/9/2001 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/5/1999 4.2 2.15 1.5 0.014 0.01 17 7.82 96 5.85 31 Melody L 5/29/2000 4.1 1.90 1.5 0.018 0.01 31 7.80 70 5.65 31 Melody L 6/25/2000 4.0 1.90 1.5 0.014 0.01 37 7.94 7.4 5.40 31 Melody L 6/25/2000 4.0 1.90 1.5 0.014 0.01 37 7.94 7.4 5.40 31 Melody L 7/10/2000 4.3 2.00 1.5 0.015 0.01 37 7.77 77 77 9.95 31 Melody L 7/10/2000 4.0 1.90 1.5 0.015 0.01 34 6.64 75 18.40 31 Melody L 8/7/2000 4.0 2.20 1.5 0.017 0.01 33 7.02 79 8.35 31 Melody L 8/7/2000 4.0 2.20 1.5 0.017 0.01 34 7.40 80 7.50 31 Melody L 8/20/2000 3.9 1.90 1.5 0.017 0.01 34 7.40 80 7.50 31 Melody L 8/20/2000 4.1 2.30 1.5 0.021 0.01 30 6.66 84 7.30 31 Melody L 8/24/2001 4.2 2.55 1.5 0.014 0.01 17 7.36 7.30 31 Melody L 7/9/2001 3.9 2.10 1.5 0.028 0.37 30 6.83 72 14.10 31 Melody L 7/9/2001 3.9 2.10 1.5 0.017 0.20 2.20 2.66 7.07 76 17.60 31 Melody L 8/25/2011 3.9 2.90 1.5 0.015 0.07 2.20 2.2 7.43 77 7.50 31 Melody L 8/25/2001 3.9 2.90 1.5 0.015 0.07 2.20 2.2 7.43 77 7.50 31 Melody L 8/25/2001 3.5 2.30 1.5 0.014 0.01 177 6.64 78 3.15 31 Melody L 8/25/2001 3.5 2.30 1.5 0.016 0.01 177 6.64 78 3.15 31 Melody L 8/25/2001 3.5 2.30 1.5 0.016 0.01 37 7.51 84 10.28 31 Melody L 8/25/2001 3.5 2.30 1.5 0.016 0.01 37 7.51 84 4.93 31 Melody L 8/25/2001 3.5 2.30 1.5 0.016 0.01 2.7 7.18 82 31 Melody L 0.60/3002 38 2.30 1.5 0.006 0.00 0.03 0.68 52.708 37 7.51 84 4.93 31 Melody L 0.60/3002 34 3.50 1.5 0.006 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | | | | | | | | | | | | | | | | |
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| 31 Melody L 7/20/2003 4.0 3.00 1.5 0.015 0.00 0.03 0.47 69.32 22 7.7 88.8 8.6 6.4 31 Melody L 8/3/2003 4.0 2.50 1.5 0.013 0.00 0.27 43.93 25 6.8 84.4 7.1 31 Melody L 8/17/2003 4.0 3.00 1.5 0.012 0.00 0.01 0.34 61.67 24 7.5 83.1 6.1 31 Melody L 9/6/2003 4.2 2.70 1.5 0.017 0.02 0.06 37 7.1 91.3 9.8 31 Melody L 6/15/2004 4.4 2.40 1.5 0.004 0.01 0.01 0.50 307.82 32 7.1 79.2 0.6 31 Melody L 6/29/2004 4.3 2.40 1.5 0.016 0.01 0.02 0.27 36.00 30 6.8 87.2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>0.009</td><td></td><td></td><td></td><td>99.15</td><td></td><td></td><td></td><td></td><td>10.4</td></t<> | | | | | | | 0.009 | | | | 99.15 | | | | | 10.4 |
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| | | | | 4.1 | | 1.5 | | | | | | 68 | 7.2 | 63.8 | | 16.4 |

| | LNum | PName | Date | Zbot | Zsd | Zsamp | Tot.P | NO3 | NH4 | TDN | TN/TP | TColor | рН | Cond25 | Ca | Chl.a |
|--|------|----------|-----------|------|------|-------|-------|------|------|------|--------|--------|------|--------|------|-------|
| | | | | | | _ | | | | | | | | | Ou | Om.a |
| Melody L 7/18/2005 3.3 1.90 1.5 0.073 0.07 0.01 0.31 0.04 2.3 7.20 68 8.4 Melody L 89/2005 2.4 1.30 1.5 0.033 0.07 0.01 0.31 0.02 0.03 3.07 0.07 1.14 Melody L 99/2005 2.4 1.30 1.5 0.028 0.03 0.01 0.26 0.03 3.3 3.0 7.6 7.7 1.14 Melody L 99/2005 2.4 1.20 1.5 0.028 0.03 0.01 0.26 0.03 3.3 3.0 7.6 8.7 1.14 Melody L 109/2005 2.4 1.20 1.5 0.028 0.03 0.01 0.28 0.03 3.3 3.0 7.6 8.7 1.36 Melody L 109/2005 2.4 1.20 1.5 0.009 0.03 0.04 0.38 9.04 2.0 7.0 4.2 2.7 Melody L 109/2005 3.4 1.30 1.5 0.009 0.03 0.04 0.38 9.04 2.0 7.0 4.2 2.7 Melody L 5/30/2006 4.2 2.00 1.5 0.022 0.02 0.03 0.04 0.04 2.2 2.7 8.1 2.8 Melody L 6/25/2006 4.2 2.00 1.5 0.022 0.02 0.03 0.04 4.08 2.6 7.5 87 7.4 2.8 Melody L 6/25/2006 4.2 2.00 1.5 0.009 0.03 0.04 0.03 8.99.2 2.1 7.1 80 4.43 Melody L 7/23/2006 4.2 2.00 1.5 0.009 0.03 0.02 7.4 10.6 2.2 2.5 7.5 87 7.4 2.0 Melody L 7/23/2006 4.2 2.03 1.5 0.009 0.03 0.02 7.4 10.5 2.2 2.5 7.5 8.7 4.4 2.0 Melody L 7/23/2006 4.2 2.03 1.5 0.009 0.01 0.01 0.56 78.99 41 8.1 68 8.3 3.1 Melody L 8/2006 4.2 2.00 1.5 0.009 0.01 0.01 0.05 78.99 41 8.1 68 8.3 3.1 Melody L 8/2006 4.2 2.00 1.5 0.009 0.01 0.01 0.01 0.05 78.99 41 8.1 68 7.5 5.5 Melody L 8/2006 4.2 2.00 1.5 0.000 0.01 0.01 0.01 0.05 7.89 41 8.1 68 7.3 5.5 Melody L 8/2006 4.2 2.00 1.5 0.000 0.01 | | | | | | | | | | | | | | | 7.6 | 12.7 |
| Melody L 879/2005 24 13.0 1.5 0.033 0.01 0.01 0.02 1.67 42 6.81 67 71.1 Melody L 979/2005 2.3 1.70 1.5 0.028 0.03 0.01 0.02 2.033 33 7.03 7.4 8.7 12.0 Melody L 979/2005 2.4 12.0 1.5 0.036 0.01 0.01 0.02 0.033 33 7.03 7.4 8.7 12.0 Melody L 109/2005 2.4 1.20 1.5 0.036 0.01 0.01 0.02 0.033 33 7.03 7.4 8.7 12.0 Melody L 109/2005 2.4 1.20 1.5 0.036 0.01 0.01 0.02 0.03 0.04 0.038 9.04 2.0 7.09 4.2 2.76 Melody L 109/2005 3.4 13.0 1.5 0.032 0.01 0.01 0.02 1.63 3.2 7.2 81 2.68 Melody L 6/13/2006 4.2 2.00 1.5 0.032 0.06 0.08 0.03 9.92 2.1 7.1 80 4.4 Melody L 6/13/2006 4.2 2.00 1.5 0.020 0.06 0.08 0.03 9.92 2.1 7.1 80 4.4 Melody L 7/10/2006 4.2 2.01 5. 0.020 0.06 0.08 0.08 9.92 2.1 7.1 80 4.4 Melody L 7/10/2006 4.2 2.03 1.5 0.076 0.01 0.05 0.78 9.41 8.1 8.8 8.76 7.55 Melody L 7/10/2006 4.2 2.00 1.5 0.076 0.01 0.02 0.77 9.054 4.6 8.1 5.8 7.6 7.55 Melody L 877/2007 4.1 2.0 1.5 0.076 0.01 0.02 0.77 9.054 4.6 8.1 5.8 7.6 7.55 Melody L 877/2007 4.1 2.0 1.5 0.076 0.01 0.02 0.77 9.054 4.6 8.1 5.8 7.6 7.55 Melody L 877/2007 4.1 2.0 1.5 0.076 0.01 0.02 0.03 8.31 1.55 3.9 8.4 4.7 3.1 8.1 Melody L 974/2007 4.1 2.0 1.5 0.071 0.01 0.02 0.03 0 | | | | | | | | | | | | | | | | |
| Melody L. 82/92005 2.4 1.30 1.5 0.083 0.01 0.01 0.42 14.57 4.2 6.81 67 7 11.4 | 31 | | | | 1.30 | 1.5 | 0.033 | 0.02 | 0.01 | 0.31 | 20.44 | 12 | 7.36 | 78 | | 11.1 |
| 31 Melody L 9/2/005 2.4 1.20 1.5 0.036 0.03 0.01 0.26 20.33 33 7.03 74 8.7 12.0 31 Melody L 9/2/005 2.4 1.20 1.5 0.036 0.02 0.01 0.10 5.87 23 8.08 114 13.6 31 Melody L 10/3/2005 2.7 1.10 1.5 0.036 0.03 0.04 0.38 89.04 120 7.09 42 27.6 31 Melody L 10/3/2006 4.4 1.20 1.5 0.032 0.01 0.01 0.27 16.63 32 7.27 81 26.8 31 Melody L 6/13/2006 4.2 3.20 1.5 0.022 0.02 0.03 0.04 44.08 26 7.5 87 7.4 2.72 31 Melody L 6/13/2006 4.2 3.20 1.5 0.022 0.02 0.03 0.04 44.08 26 7.5 87 7.4 2.72 31 Melody L 7/10/2006 4.2 3.20 1.5 0.020 0.01 0.01 0.07 6.09 1.8 6.9 2 21 7.1 80 4.43 31 Melody L 7/10/2006 4.2 3.20 1.5 0.002 0.01 0.01 0.07 6.7 8.9 41 8.1 88 8 3.81 31 Melody L 7/10/2006 4.2 2.20 1.5 0.002 0.01 0.01 0.07 6.7 8.9 41 8.1 88 8 8.1 3.81 31 Melody L 8/20/2006 4.2 1.20 1.5 0.002 0.01 0.01 0.07 6.7 8.9 41 8.1 88 8 3.81 31 Melody L 8/20/2006 4.2 1.20 1.5 0.002 0.01 0.01 0.01 0.05 8.0 8.0 8.4 73 31 Melody L 8/20/2006 4.2 1.00 1.5 0.002 0.01 0.02 0.07 90.54 46 8.1 58 7.6 7.5 7.2 7.0 31 Melody L 8/20/2006 4.2 1.00 1.5 0.002 0.01 0.02 0.07 90.54 46 8.1 58 7.6 7.5 7.0 31 Melody L 8/20/2007 3.8 1.80 1.5 0.016 0.00 0.03 1.00 11.35 3.0 8.0 9 8.4 73 3.55 31 Melody L 8/20/2007 3.8 1.80 1.5 0.019 0.01 0.02 0.03 0.03 11.53 3 9 8.4 73 8.5 31 Melody L 8/20/2007 3.8 1.80 1.5 0.019 0.01 0.02 0.03 0.03 18.35 3 9 8.37 74 11.9 8.7 1 31 Melody L 8/26/2007 3.9 1.50 1.5 0.019 0.01 0.02 0.03 0.03 8.0 9.0 8 8.37 74 11.9 8.7 1 31 Melody L 8/26/2007 3.9 1.50 1.5 0.019 0.01 0.01 0.05 0.7 91.07 1.0 8.0 7.0 91.0 91.0 91.0 91.0 91.0 91.0 91.0 91 | 31 | Melody L | | 2.4 | 1.30 | 1.5 | 0.063 | 0.01 | 0.01 | 0.42 | 14.57 | 42 | 6.81 | 67 | | 11.4 |
| 31 Melody L 99/20/2005 2.4 1.00 1.5 0.009 0.02 0.01 0.10 5.87 23 8.08 114 13.3 Melody L 109/2005 3.7 1.01 1.5 0.009 0.03 0.04 0.38 80.04 20 7.09 42 27.6 31 Melody L 5/30/2006 4.2 2.00 1.5 0.022 0.03 0.44 4.08 26 7.75 87 7.4 2.72 31 Melody L 6/32/2006 4.2 3.00 1.5 0.022 0.03 0.04 0.03 32 7.27 81 1 2.6 8 31 Melody L 6/32/2006 4.2 2.00 1.5 0.01 0.02 0.03 0.04 4.08 20 7.5 87 7.4 2.72 31 Melody L 6/32/2006 4.2 2.00 1.5 0.01 0.00 0.00 0.00 0.03 0.04 0.03 8 31 Melody L 7/32/2006 4.2 2.00 1.5 0.01 0.00 0.00 0.00 0.03 0.00 0.00 0.00 | 31 | Melody L | 9/9/2005 | 2.3 | 1.70 | 1.5 | 0.028 | 0.03 | 0.01 | 0.26 | 20.33 | 33 | | 74 | 8.7 | 12.0 |
| 31 Melody L 5/30/2006 4.4 2.90 1.5 00.32 0.01 0.01 0.27 18.63 32 7.27 88 1 28.8 31 Melody L 6/32/2006 4.2 3.20 1.5 0.020 0.06 0.08 0.63 69.92 21 7.1 89 0 4.43 31 Melody L 6/25/2006 4.2 2.90 1.5 0.020 0.06 0.08 0.63 69.92 21 7.1 89 0 4.43 31 Melody L 7/32/2006 4.2 2.90 1.5 0.016 0.01 0.01 0.07 0.66 78.99 41 8.1 88 8 8.8 8 1 82.8 8 31 Melody L 7/32/2006 4.2 2.90 1.5 0.016 0.01 0.01 0.02 0.79 0.54 48 8.1 58 7.6 7.5 5 31 Melody L 8/7/2006 4.2 2.30 1.5 0.016 0.02 0.03 0.83 113.53 39 8.4 73 3.55 31 Melody L 8/7/2006 4.2 2.20 1.5 0.019 0.01 0.02 0.79 0.54 48 8.1 58 7.6 7.5 5 31 Melody L 8/7/2006 4.2 2.20 1.5 0.019 0.01 0.02 0.79 0.54 48 8.1 58 7.6 7.5 5 31 Melody L 8/7/2006 4.2 1.20 1.5 0.019 0.01 0.02 0.79 0.54 48 8.1 58 7.6 7.5 5 31 Melody L 8/7/2006 4.2 1.00 1.5 0.021 0.02 0.01 0.02 0.71 113.55 29 7.2 72 7.02 31 Melody L 8/7/2007 4.1 2.20 1.5 0.019 0.01 0.02 0.71 113.55 29 7.2 72 7.02 31 Melody L 8/7/2007 3.8 1.80 1.5 0.019 0.01 0.02 0.75 86.09 62 6.9 63 3.5 2.0 31 Melody L 8/7/2007 3.8 1.80 1.5 0.019 0.01 0.01 0.06 77.48 12 8.78 71 113.88 31 Melody L 8/7/2007 3.9 1.90 1.5 0.018 0.01 0.05 0.76 91.67 26 8.88 90 9.17 31 Melody L 9/4/2007 3.9 1.90 1.5 0.018 0.01 0.02 0.75 86.87 2.5 7.44 79 9.81 6.08 31 Melody L 9/4/2007 4.1 1.90 1.5 0.019 0.01 0.02 0.75 86.87 2.5 7.44 79 9.81 6.08 31 Melody L 10/2/2007 4.8 1.30 1.5 0.026 0.02 0.09 0.74 61.36 13 7.99 88 16.23 31 Melody L 10/2/2007 4.8 1.30 1.5 0.026 0.02 0.09 0.74 61.36 13 7.99 88 16.23 31 Melody L 10/2/2007 4.8 1.30 1.5 0.026 0.00 0.00 0.05 0.76 97.94 12 7.30 77 6.8 51.58 31 Melody L 10/2/2007 4.8 1.30 1.5 0.026 0.00 0.00 0.00 0.75 86.87 2.5 7.44 79 9.81 6.08 31 Melody L 10/2/2007 4.8 1.30 1.5 0.026 0.00 0.00 0.75 86.87 2.5 7.44 79 9.81 6.08 31 Melody L 10/2/2009 3.8 1.65 0.00 0.00 0.00 0.00 0.75 86.87 2.5 7.44 79 9.81 6.08 31 Melody L 10/2/2009 3.8 1.55 0.00 0.00 0.00 0.00 0.75 86.87 2.5 7.44 79 9.81 6.08 31 Melody L 10/2/2009 3.8 1.55 0.00 0.00 0.00 0.00 0.00 0.75 86.87 2.5 7.44 79 9.81 6.08 31 Melody L 10/2/2009 3.8 1 | | | 9/20/2005 | 2.4 | 1.20 | 1.5 | 0.036 | 0.02 | 0.01 | 0.10 | 5.87 | 23 | 8.08 | 114 | | 13.6 |
| | 31 | Melody L | 10/9/2005 | 2.7 | 1.10 | 1.5 | 0.009 | 0.03 | 0.04 | 0.38 | 89.04 | 20 | 7.09 | 42 | | 27.6 |
| 31 | 31 | Melody L | 10/23/05 | 3.4 | 1.30 | 1.5 | 0.032 | 0.01 | 0.01 | 0.27 | 18.63 | 32 | 7.27 | 81 | | 26.8 |
| 31 Melody L 7/20/2006 4.2 2.30 1.5 0.015 0.03 0.02 0.74 106.32 2.5 7.3 4.92 | 31 | Melody L | 5/30/2006 | 4.4 | 2.90 | 1.5 | 0.022 | 0.02 | 0.03 | 0.44 | 44.08 | 26 | 7.5 | 87 | 7.4 | 2.72 |
| 31 Melody L 7710/2006 4.2 2.30 1.5 0.016 0.01 0.01 0.05 78.99 41 8.1 68 3.8 3.8 31 Melody L 7731/2006 4.2 2.30 1.5 0.016 0.02 0.03 0.83 113.53 39 8.4 73 3.55 31 Melody L 8672/2006 4.2 2.30 1.5 0.016 0.02 0.03 0.83 113.53 39 8.4 73 3.55 31 Melody L 8742/2006 4.2 2.00 1.5 0.020 0.01 0.02 1.01 113.55 2.9 7.2 7.0 | 31 | Melody L | 6/13/2006 | 4.2 | 3.20 | 1.5 | 0.020 | 0.06 | 0.08 | 0.63 | 69.92 | 21 | 7.1 | 80 | | 4.43 |
| Melody L 17/23/2006 4.3 2.20 1.5 0.019 0.01 0.02 0.77 90.54 46 8.1 58 7.6 7.55 | 31 | | 6/25/2006 | 4.3 | 2.60 | 1.5 | 0.015 | 0.03 | 0.02 | 0.74 | 106.32 | 25 | 7.3 | | | 4.92 |
| 31 Melody L 87/2006 42 23 1.5 0.016 0.02 0.03 0.33 113.53 39 8.4 73 3.55 31 Melody L 87/2006 42 23 1.5 0.020 0.01 0.02 1.01 113.55 29 72 7.02 31 Melody L 97/2007 4.1 2.20 1.5 0.020 0.01 0.02 0.48 57.38 9 8.37 74 11.9 8.70 31 Melody L 87/2007 3.8 1.80 1.5 0.019 0.01 0.02 0.48 57.38 9 8.37 74 11.9 8.71 31 Melody L 87/2007 3.8 1.80 1.5 0.019 0.01 0.01 0.05 0.76 91.67 26 8.38 80 9.17 11.9 31 Melody L 87/2007 3.9 1.90 1.5 0.015 0.010 0.01 0.02 0.76 91.67 26 8.38 80 9.17 11.9 31 Melody L 94/2007 3.9 1.90 1.5 0.015 0.010 0.02 0.75 11.39 32 7.32 7.2 7.89 32 Melody L 10/9/2007 3.9 1.90 1.5 0.015 0.010 0.02 0.75 11.39 32 7.32 7.2 7.89 33 Melody L 10/9/2007 3.9 1.90 1.5 0.025 0.010 0.01 0.02 0.75 11.39 3.7 7.32 7.32 7.2 7.89 34 Melody L 10/9/2007 3.9 1.90 1.5 0.026 0.02 0.01 0.18 0.01 0.95 7.98 8.38 1.55 15.68 35 Melody L 10/9/2007 4.1 1.90 1.5 0.026 0.02 0.00 0.04 0.75 8.6.7 25 7.44 7.9 9.8 15.68 35 Melody L 10/9/2007 4.1 2.90 1.5 0.026 0.02 0.09 0.074 61.36 13 7.99 88 12.50 35 Melody L 10/9/2008 3.8 2.90 1.5 0.015 0.01 0.02 0.67 97.04 12 7.30 77 6.8 5.51 35 Melody L 67/20/2008 3.8 2.90 1.5 0.015 0.01 0.02 0.67 97.04 12 7.30 77 6.8 5.31 35 Melody L 67/20/2008 3.8 2.90 1.5 0.014 0.00 0.03 3.4 5.06 8.9 7.68 8.3 35 Melody L 711/2008 3.8 2.40 1.5 0.015 0.015 0.015 0.016 0.02 0.07 7.04 12 7.30 77 6.8 5.51 35 Melody L 87/2008 3.8 2.50 1.5 0.014 0.00 0.03 3.4 5.06 8.05 7.76 6.8 5.1 36 Melody L 87/2008 3.8 2.50 1.5 0.014 0.00 0.03 0.03 0.00 0.0 | 31 | Melody L | 7/10/2006 | 4.2 | 2.30 | 1.5 | 0.016 | 0.01 | 0.01 | 0.56 | 78.99 | 41 | 8.1 | 68 | | 3.81 |
| 31 Melody L 94/2007 3.9 1.0 1.5 0.020 0.01 0.02 1.01 113.55 29 7.2 72 7.02 7.02 3.1 Melody L 94/2007 3.9 2.00 1.5 0.019 0.01 0.02 0.49 57.38 9 8.37 74 11.9 8.71 3.1 Melody L 87/2007 3.8 1.80 1.5 0.019 0.01 0.01 0.06 77.46 12 8.78 71 13.98 3.1 Melody L 87/2007 3.9 2.00 1.5 0.018 0.01 0.05 0.76 91.67 26 8.38 80 9.17 3.31 Melody L 87/2007 3.9 1.90 1.5 0.019 0.01 0.02 0.75 113.93 23 7.32 72 7.89 3.1 Melody L 91/2007 3.1 1.90 1.5 0.019 0.01 0.02 0.75 113.93 23 7.32 72 7.89 3.1 Melody L 91/2007 3.9 1.90 1.5 0.019 0.05 0.04 0.75 8.618 2.5 7.44 7.9 9.8 16.08 3.1 Melody L 101/2007 4.1 1.90 1.5 0.019 0.05 0.04 0.07 0.07 8.018 3.1 7.99 8.8 16.22 3.1 Melody L 101/16/2007 4.8 1.30 1.5 0.022 0.01 0.18 0.80 79.99 16 7.73 85 15.68 3.1 Melody L 101/16/2007 4.8 1.30 1.5 0.022 0.03 0.09 0.80 80.11 1.4 7.83 89 1.5 1.5 1.5 1.3 1.3 Melody L 6/29/2008 3.9 2.80 1.5 0.014 0.00 0.03 0.46 3.36 9 7.68 8.3 4.33 3.1 Melody L 6/29/2008 3.8 1.55 0.014 0.00 0.03 0.34 53.65 9 7.68 8.3 4.33 4.33 Melody L 771/2009 3.8 2.5 5.5 0.015 0.010 0.02 0.02 0.29 3.344 1.3 8.52 72 8.40 3.3 Melody L 776/2008 3.8 1.75 1.5 0.015 0.010 0.00 0.05 0.00 0.0 | 31 | | 7/23/2006 | 4.3 | 2.20 | 1.5 | 0.019 | 0.01 | 0.02 | 0.77 | 90.54 | 46 | 8.1 | 58 | 7.6 | 7.55 |
| 31 Melody L 9/4/2007 4.1 2.0 1.5 0.021 0.03 86.09 62 6.9 6.3 5.20 | | Melody L | 8/7/2006 | 4.2 | 2.30 | 1.5 | 0.016 | 0.02 | | 0.83 | 113.53 | | | | | 3.55 |
| Melody L Micro M | | | 8/20/2006 | 4.2 | 2.20 | 1.5 | 0.020 | 0.01 | 0.02 | 1.01 | 113.55 | 29 | 7.2 | 72 | | 7.02 |
| 31 Melody L 87/2007 3.8 1.80 1.5 0.019 0.01 0.01 0.66 77.48 12 8.78 71 1.98 | | | | 4.2 | | 1.5 | | | | | | 62 | | 63 | | |
| Melody L 9/4/2007 3.9 2.00 1.5 0.018 0.01 0.05 0.76 91.67 2.6 8.38 80 9.17 31 Melody L 9/4/2007 3.9 1.90 1.5 0.015 0.01 0.02 0.75 113.93 23 7.32 72 7.89 31 Melody L 9/11/2007 4.1 1.90 1.5 0.019 0.05 0.04 0.75 86.87 25 7.44 79 9.8 16.08 31 Melody L 10/2/2007 3.9 1.90 1.5 0.022 0.01 0.18 0.80 79.98 16 7.73 85 15.68 31 Melody L 10/2/2008 4.1 2.18 1.5 0.022 0.01 0.18 0.80 79.98 16 7.73 85 15.68 31 Melody L 10/18/2008 4.1 2.80 1.5 0.022 0.03 0.09 0.74 61.36 13 7.79 88 16.22 31 Melody L 6/29/2008 4.1 2.80 1.5 0.015 0.01 0.02 0.07 0.74 12 7.33 89 12.50 31 Melody L 6/29/2008 3.9 2.80 1.5 0.014 0.00 0.03 0.34 53.65 9 7.68 8.3 4.33 4.33 Melody L 7/11/2008 3.8 2.40 1.5 0.015 0.01 0.02 0.02 0.22 33.44 13 8.32 72 8.40 1.3 Melody L 7/11/2008 3.8 1.75 1.5 0.015 0.01 0.02 0.02 0.23 33.44 13 8.32 72 8.40 1.3 Melody L 7/26/2008 3.8 1.75 1.5 0.015 0.01 0.00 0.00 0.74 10/4 15 8.06 51 10.36 31 Melody L 8/12/2008 3.8 1.75 1.5 0.023 0.00 0.00 0.74 10/4 15 8.06 51 10.36 31 Melody L 8/12/2008 3.8 1.70 1.5 0.019 0.00 0.01 0.50 42.01 20 7.76 86 9.1 17.29 31 Melody L 8/12/2008 3.6 1.35 1.5 0.030 0.01 0.10 0.59 42.69 11 8.11 71 45.28 31 Melody L 0.6/2/2009 3.8 2.35 1.5 0.021 0.01 0.10 0.44 46.16 46 8.11 69 8.5 13.16 31 Melody L 0.6/2/2009 3.8 2.35 1.5 0.021 0.01 0.01 0.44 46.16 46 8.11 69 8.5 13.16 31 Melody L 0.6/2/2009 3.8 2.35 1.5 0.021 0.01 0.01 0.44 46.16 46 8.11 69 8.5 3.31 40 40 40 40 40 40 40 4 | | Melody L | 7/7/2007 | | | | 0.019 | | | | 57.38 | | | | 11.9 | |
| 31 Melody L 9/4/2007 3.9 1.90 1.5 0.015 0.01 0.02 0.75 113.03 23 7.32 7.2 7.89 31 Melody L 10/12/2007 3.9 1.90 1.5 0.022 0.01 0.18 0.80 79.98 16 7.73 85 15.68 31 Melody L 10/12/2007 3.9 1.90 1.5 0.022 0.01 0.18 0.80 79.98 16 7.73 85 15.68 31 Melody L 10/18/2007 4.8 1.30 1.5 0.022 0.01 0.18 0.80 79.98 16 7.73 85 15.68 31 Melody L 10/18/2007 4.8 1.30 1.5 0.022 0.03 0.99 0.80 80.11 14 7.83 89 12.50 31 Melody L 0.69/2008 3.9 2.80 1.5 0.014 0.00 0.03 0.99 0.80 80.11 14 7.83 89 12.50 31 Melody L 0.711/2008 3.8 2.40 1.5 0.014 0.00 0.03 0.34 53.65 9 7.68 83 4.33 31 Melody L 7711/2008 3.8 2.40 1.5 0.014 0.00 0.02 0.22 0.29 33.44 13 8.32 72 8.40 31 Melody L 8712/2008 4.2 1.45 1.5 0.015 0.07 106.14 15 8.06 51 10.36 31 Melody L 8712/2008 4.2 1.45 1.5 0.023 0.07 0.08 0.50 48.01 2.0 7.76 86 9.1 17.29 31 Melody L 972/2008 3.6 1.35 1.5 0.023 0.07 0.02 0.02 0.25 3.64 3.8 4.33 31 Melody L 972/2008 3.6 1.35 1.5 0.023 0.07 0.05 0.56 5.56 3.8 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 3.5 4.35 4.35 3.5 4.3 | | | | | | | | 0.01 | | | | | | | | |
| 31 Melody L 9/17/2007 3.9 1, 190 1.5 0.019 0.05 0.04 0.75 86.87 25 7.44 79 9.8 16.08 31 Melody L 10/9/2007 3.9 1, 190 1.5 0.022 0.01 0.18 0.80 79.8 16 7.73 85 15.68 31 Melody L 10/9/2007 4.0 1.80 1.5 0.026 0.02 0.09 0.74 61.36 13 7.99 88 16.22 33 Melody L 6/9/2008 4.1 2.80 1.5 0.026 0.02 0.09 0.74 61.36 13 7.99 88 16.22 33 Melody L 6/9/2008 1.1 2.80 1.5 0.025 0.03 0.09 0.80 0.11 14 7.83 89 12.50 31 Melody L 6/9/2008 3.9 2.80 1.5 0.015 0.01 0.02 0.67 97.04 12 7.30 77 6.8 53.31 31 Melody L 7/26/2008 3.9 2.80 1.5 0.014 0.00 0.03 0.34 53.65 9 7.68 83 4.33 31 Melody L 7/26/2008 3.8 1.75 1.5 0.015 0.01 0.02 0.67 97.04 12 7.30 77 6.8 53.43 31 Melody L 7/26/2008 3.8 1.75 1.5 0.015 0.01 0.02 0.02 0.29 33.44 13 8.32 72 8.40 31 Melody L 7/26/2008 3.8 1.75 1.5 0.015 0.015 0.01 0.02 0.07 0.08 0.05 48.01 15 0.06 51 10.36 31 Melody L 8/12/2008 3.7 1.95 1.5 0.023 0.07 0.08 0.05 48.01 15 0.07 7.68 9.17 0.05 31 Melody L 9/9/2008 3.6 1.35 1.5 0.023 0.00 0.02 16 7.76 68 9.1 17.29 31 Melody L 9/9/2008 3.6 1.35 1.5 0.023 0.00 0.01 0.55 73.66 13 8.40 85 23.20 31 Melody L 9/9/2008 3.8 1.35 1.5 0.023 0.00 0.01 0.55 73.66 11 8.40 85 23.20 31 Melody L 9/9/2008 3.8 1.35 1.5 0.021 0.01 0.01 0.59 42.69 11 8.11 71 48.28 31 Melody L 06/17/2009 4.1 2.25 1.5 0.021 0.01 0.01 0.59 42.69 11 8.11 71 48.28 31 Melody L 06/27/2009 3.8 2.35 1.5 0.017 0.01 0.01 0.33 43.87 29 6.87 80 4.94 31 Melody L 09/17/2009 3.8 2.35 1.5 0.017 0.02 0.03 0.36 48.89 30 6.77 125 5.34 31 Melody L 09/17/2009 3.8 2.35 1.5 0.017 0.02 0.03 0.36 48.89 30 6.77 125 5.34 31 Melody L 09/17/2009 3.8 1.35 1.5 0.029 0.03 0.01 0.55 42.04 52 7.76 6.32 54 8.50 31 Melody L 09/17/2009 4.0 1.25 1.5 0.029 0.03 0.01 0.56 42.19 68 7.21 73 564.00 31 Melody L 09/17/2009 4.0 1.25 1.5 0.029 0.03 0.01 0.56 42.19 68 7.21 73 564.00 31 Melody L 09/17/2009 4.0 1.25 1.5 0.029 0.03 0.01 0.56 60.00 8.90 9.90 9.90 9.90 9.90 9.90 9.90 | | | | | | | | | | | | | | | | |
| 31 Melody L 10/2/2007 3.9 1.90 1.5 0.022 0.01 0.18 0.80 79.98 16 7.73 85 15.68 31 Melody L 10/9/2007 4.0 1.80 1.5 0.022 0.03 0.09 0.74 61.36 13 7.99 88 16.22 33 Melody L 10/18/2007 4.8 1.30 1.5 0.022 0.03 0.09 0.80 80.11 14 7.83 89 12.50 131 Melody L 6/9/2008 4.1 2.80 1.5 0.015 0.01 0.02 0.67 97.04 12 7.30 77 6.8 5.51 131 Melody L 6/9/2008 3.8 2.40 1.5 0.015 0.01 0.02 0.67 97.04 12 7.30 77 6.8 5.51 131 Melody L 7/11/2008 3.8 2.40 1.5 0.019 0.02 0.02 0.22 23 3.44 13 8.32 72 8.40 31 Melody L 7/26/2008 3.8 1.75 1.5 0.023 0.07 0.08 0.50 48.01 20 7.76 86 9.1 17.29 31 Melody L 8/24/2008 3.7 1.95 1.5 0.023 0.07 0.08 0.50 48.01 20 7.76 86 9.1 17.29 31 Melody L 8/24/2008 3.6 1.35 1.5 0.023 0.00 0.02 | | | | | | | | | | | | | | | | |
| 31 Melody L 10/9/2007 4.0 1.80 1.5 0.026 0.02 0.09 0.74 61.36 13 7.99 88 16.22 | | | | | | | | | | | | | | | 9.8 | |
| 31 Melody L 10/18/2007 4.8 1.30 1.5 0.022 0.03 0.09 0.80 80.11 14 7.83 89 12.50 31 Melody L 6/9/2008 3.9 2.80 1.5 0.015 0.01 0.02 0.67 97.04 12 7.30 77 6.8 5.51 31 Melody L 6/29/2008 3.9 2.80 1.5 0.014 0.00 0.03 0.34 53.65 9 7.68 83 4.33 31 Melody L 7/11/2008 3.8 2.40 1.5 0.019 0.02 0.02 0.29 33.44 13 8.32 72 8.40 10.36 31 Melody L 7/12/2008 3.8 1.76 1.5 0.015 0.015 0.71 106.14 15 8.06 51 10.36 31 Melody L 8/12/2008 4.2 1.45 1.5 0.023 0.07 0.08 0.50 48.01 20 7.76 86 9.1 17.29 31 Melody L 8/12/2008 3.8 1.70 1.5 0.023 0.07 0.08 0.50 48.01 20 7.76 86 9.1 17.29 31 Melody L 9/20/2008 3.8 1.70 1.5 0.023 0.00 0.02 0.05 57.36 13 8.40 85 23.20 31 Melody L 9/20/2008 3.6 1.35 1.5 0.030 0.01 0.10 0.59 42.69 11 8.11 71 45.28 43 43 44 44 44 44 44 4 | | | | | | | | | | | | | | | | |
| Melody L 6/9/2008 4.1 2.80 1.5 0.014 0.00 0.07 0.704 12 7.30 77 6.8 5.51 | | | | | | | | | | | | | | | | |
| Melody L 6/29/2008 3.9 2.80 1.5 0.014 0.00 0.03 0.34 53.65 9 7.68 83 4.33 31 Melody L 7/11/2008 3.8 2.40 1.5 0.019 0.02 0.02 0.29 33.44 13 8.32 72 8.40 31 Melody L 7/26/2008 3.8 1.75 1.5 0.015 0.71 106.14 15 8.06 51 10.36 31 Melody L 8/12/2008 4.2 1.45 1.5 0.023 0.07 0.08 0.50 48.01 20 7.76 86 9.1 17.29 31 Melody L 8/24/2008 3.7 1.95 1.5 0.023 0.00 0.02 11 61.04 15 6.05 31 Melody L 9/20/2008 3.8 1.70 1.5 0.019 0.00 0.01 0.50 57.36 13 8.40 85 23.20 31 Melody L 9/20/2008 3.6 1.35 1.5 0.023 0.00 0.01 0.59 42.69 11 8.11 71 45.28 31 Melody L 06/29/2009 3.8 2.35 1.5 0.021 0.01 0.01 0.31 43.87 29 6.87 80 4.94 31 Melody L 06/29/2009 3.8 2.35 1.5 0.017 0.01 0.01 0.33 43.87 29 6.87 80 4.94 31 Melody L 06/21/2009 4.0 2.05 1.5 0.038 0.06 0.08 0.50 29.12 76 6.32 54 8.50 31 Melody L 08/21/2009 3.8 1.45 1.5 0.024 0.01 0.02 0.03 0.38 49.89 30 6.77 125 5.34 31 Melody L 08/21/2009 3.8 1.45 1.5 0.024 0.01 0.02 0.03 0.08 50 29.12 76 6.32 54 8.50 31 Melody L 08/21/2009 3.8 1.45 1.5 0.024 0.01 0.02 0.65 58.82 73 7.09 56 31.30 31 Melody L 08/21/2009 3.8 1.35 1.5 0.024 0.01 0.02 0.65 58.82 73 7.09 56 31.30 31 Melody L 09/11/2009 3.8 1.35 1.5 0.020 0.03 0.07 0.70 0.04 30 8.10 93 9.2 3.90 31 Melody L 07/2009 3.8 1.35 1.5 0.020 0.03 0.07 0.70 0.66 42.19 68 7.21 73 56.40 31 Melody L 0.07/2009 3.8 1.35 1.5 0.020 0.03 0.03 0.07 0.70 0.56 42.19 68 7.21 73 56.40 31 Melody L 0.07/2009 3.8 1.35 1.5 0.020 0.03 0.03 0.07 0.70 0.04 30 8.10 93 9.2 3.90 31 Melody L 0.07/2009 3.8 1.55 1.5 0.020 | | | | | | | | | | | | | | | | |
| Melody L 7/11/2008 3.8 2.40 1.5 0.019 0.02 0.02 0.29 33.44 13 8.32 72 8.40 | | | | | | | | | | | | | | | 6.8 | |
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| 31 | | | | | | | | 0.02 | 0.02 | | | | | | | |
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| 31 | | | | | | | | | | _ | | | | | | |
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| Melody L 6/7/2010 4.2 2.75 1.5 0.023 0.02 0.03 | | | | 3.8 | 2 25 | 1.5 | 0.018 | 0.07 | 0.04 | | | 30 | 8 10 | 03 | 9.2 | 3 90 |
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| 31 | | | | | | | | | | | 80.67 | | | | | |
| 31 Melody L 7/26/2010 4.0 1.55 1.5 0.028 0.01 0.03 0.75 58.59 19 8.22 96 12.3 27.50 31 Melody L 8/4/2010 4.1 1.15 1.5 0.040 0.03 0.11 0.81 44.16 14 7.50 104 38.70 31 Melody L 9/20/2010 3.8 1.55 1.5 0.034 0.10 0.21 0.76 49.13 19 7.48 105 14.50 31 Melody L 10/10/2010 4.4 1.75 1.5 0.030 0.09 0.18 0.75 55.67 47 6.76 93 4.40 31 Melody L 6/13/2011 4.0 2.05 1.5 0.016 0.03 0.06 0.38 51.51 31 7.12 78 8.5 9.10 31 Melody L 6/13/2011 4.0 2.05 1.5 0.019 0.02 0.04 0.58 | | | | | | | | | | | | | | | | |
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| 31 Melody L 9/20/2010 3.8 1.55 1.5 0.034 0.10 0.21 0.76 49.13 19 7.48 105 14.50 31 Melody L 10/10/2010 4.4 1.75 1.5 0.030 0.09 0.18 0.75 55.67 47 6.76 93 4.40 31 Melody L 6/13/2011 4.1 2.15 1.5 0.016 0.03 0.06 0.38 51.51 31 7.12 78 8.5 9.10 31 Melody L 6/28/2011 4.0 2.05 1.5 0.019 0.02 0.04 0.58 66.00 26 8.12 82 6.70 31 Melody L 8/6/2011 3.9 1.23 1.5 0.023 0.01 0.05 0.74 69.87 20 8.00 87 18.40 31 Melody L 8/6/2011 grab bloom 9 9 24 6.80 95 10.7 15.10 </td <td>-</td> <td></td> <td></td> <td>4.1</td> <td>1.15</td> <td>1.5</td> <td>0.040</td> <td>0.03</td> <td>0.11</td> <td>0.81</td> <td>44.16</td> <td>14</td> <td>7.50</td> <td>104</td> <td></td> <td>38.70</td> | - | | | 4.1 | 1.15 | 1.5 | 0.040 | 0.03 | 0.11 | 0.81 | 44.16 | 14 | 7.50 | 104 | | 38.70 |
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| 31 Melody L 7/19/2011 4.1 1.45 1.5 0.017 0.02 0.02 0.65 83.37 19 7.74 83 11.60 31 Melody L 8/6/2011 3.9 1.23 1.5 0.023 0.01 0.05 0.74 69.87 20 8.00 87 18.40 31 Melody L 8/6/2011 grab bloom 8/6/2011 grab bloom 8/6/2011 8/6/2011 8/6/2011 9/2011 4.2 1.05 1.5 0.028 0.03 0.09 0.64 50.99 24 6.80 95 10.7 15.10 31 Melody L 9/13/2011 4.4 1.25 1.5 0.022 0.03 0.03 0.62 63.03 49 7.24 66 17.90 31 Melody L 9/27/2011 4.0 1.48 1.5 0.026 0.01 0.02 0.66 56.68 40 7.62 66 8.70 31 Melody L 10/2/2011 | - | | | | | | | | | | | | | | | |
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| 31 Melody L 8/6/2011 grab bloom Body | | | | | | | | | | | | | | | | |
| 31 Melody L 8/29/2011 4.2 1.05 1.5 0.028 0.03 0.09 0.64 50.99 24 6.80 95 10.7 15.10 31 Melody L 9/13/2011 4.4 1.25 1.5 0.022 0.03 0.03 0.62 63.03 49 7.24 66 17.90 31 Melody L 9/27/2011 4.0 1.48 1.5 0.026 0.01 0.02 0.66 56.68 40 7.62 66 8.70 31 Melody L 10/2/2011 3.8 1.25 1.5 0.030 0.02 0.10 0.65 47.30 54 7.55 65 10.60 31 Melody L 6/12/2012 4.2 2.45 1.5 0.019 0.01 0.01 0.35 41.65 25 7.50 80 8.5 6.40 31 Melody L 6/25/2012 4.2 2.05 1.5 0.017 0.01 0.04 0.41 | 31 | Melody L | 8/6/2011 | _ | | | | | | | | | | | | |
| 31 Melody L 9/13/2011 4.4 1.25 1.5 0.022 0.03 0.03 0.62 63.03 49 7.24 66 17.90 31 Melody L 9/27/2011 4.0 1.48 1.5 0.026 0.01 0.02 0.66 56.68 40 7.62 66 8.70 31 Melody L 10/2/2011 3.8 1.25 1.5 0.030 0.02 0.10 0.65 47.30 54 7.55 65 10.60 31 Melody L 6/12/2012 4.2 2.45 1.5 0.019 0.01 0.01 0.35 41.65 25 7.50 80 8.5 6.40 31 Melody L 6/25/2012 4.2 2.05 1.5 0.017 0.01 0.04 0.41 53.69 24 7.26 79 6.20 31 Melody L 7/17/2012 3.7 1.83 1.5 0.017 0.01 0.03 0.40 51.25 | | | |) | | | 0.028 | 0.03 | 0.09 | 0.64 | 50.99 | 24 | 6.80 | 95 | 10.7 | 15.10 |
| 31 Melody L 9/27/2011 4.0 1.48 1.5 0.026 0.01 0.02 0.66 56.68 40 7.62 66 8.70 31 Melody L 10/2/2011 3.8 1.25 1.5 0.030 0.02 0.10 0.65 47.30 54 7.55 65 10.60 31 Melody L 6/12/2012 4.2 2.45 1.5 0.019 0.01 0.01 0.35 41.65 25 7.50 80 8.5 6.40 31 Melody L 6/25/2012 4.2 2.05 1.5 0.017 0.01 0.04 0.41 53.69 24 7.26 79 6.20 31 Melody L 7/17/2012 3.7 1.83 1.5 0.017 0.01 0.03 0.40 51.25 20 7.38 86 6.90 31 Melody L 8/6/2012 3.6 1.28 1.5 0.022 0.01 0.01 0.53 53.55 | | Melody L | | 4.4 | 1.25 | 1.5 | 0.022 | 0.03 | 0.03 | 0.62 | 63.03 | 49 | 7.24 | 66 | | 17.90 |
| 31 Melody L 10/2/2011 3.8 1.25 1.5 0.030 0.02 0.10 0.65 47.30 54 7.55 65 10.60 31 Melody L 6/12/2012 4.2 2.45 1.5 0.019 0.01 0.01 0.35 41.65 25 7.50 80 8.5 6.40 31 Melody L 6/25/2012 4.2 2.05 1.5 0.017 0.01 0.04 0.41 53.69 24 7.26 79 6.20 31 Melody L 7/17/2012 3.7 1.83 1.5 0.017 0.01 0.03 0.40 51.25 20 7.38 86 6.90 31 Melody L 8/6/2012 3.6 1.28 1.5 0.022 0.01 0.01 0.53 53.55 20 8.66 86 21.30 | 31 | Melody L | | 4.0 | 1.48 | 1.5 | 0.026 | 0.01 | 0.02 | 0.66 | 56.68 | 40 | 7.62 | 66 | | 8.70 |
| 31 Melody L 6/12/2012 4.2 2.45 1.5 0.019 0.01 0.01 0.35 41.65 25 7.50 80 8.5 6.40 31 Melody L 6/25/2012 4.2 2.05 1.5 0.017 0.01 0.04 0.41 53.69 24 7.26 79 6.20 31 Melody L 7/17/2012 3.7 1.83 1.5 0.017 0.01 0.03 0.40 51.25 20 7.38 86 6.90 31 Melody L 8/6/2012 3.6 1.28 1.5 0.022 0.01 0.01 0.53 53.55 20 8.66 86 21.30 | 31 | | 10/2/2011 | 3.8 | 1.25 | 1.5 | 0.030 | 0.02 | 0.10 | 0.65 | 47.30 | 54 | 7.55 | 65 | | 10.60 |
| 31 Melody L 7/17/2012 3.7 1.83 1.5 0.017 0.01 0.03 0.40 51.25 20 7.38 86 6.90 31 Melody L 8/6/2012 3.6 1.28 1.5 0.022 0.01 0.01 0.53 53.55 20 8.66 86 21.30 | 31 | | | 4.2 | 2.45 | 1.5 | 0.019 | 0.01 | 0.01 | 0.35 | 41.65 | 25 | 7.50 | 80 | 8.5 | 6.40 |
| 31 Melody L 7/17/2012 3.7 1.83 1.5 0.017 0.01 0.03 0.40 51.25 20 7.38 86 6.90 31 Melody L 8/6/2012 3.6 1.28 1.5 0.022 0.01 0.01 0.53 53.55 20 8.66 86 21.30 | 31 | Melody L | 6/25/2012 | 4.2 | 2.05 | 1.5 | 0.017 | 0.01 | 0.04 | 0.41 | 53.69 | 24 | 7.26 | 79 | | 6.20 |
| | | | 7/17/2012 | 3.7 | 1.83 | 1.5 | 0.017 | 0.01 | 0.03 | 0.40 | 51.25 | 20 | 7.38 | 86 | | 6.90 |
| 31 Melody L 8/20/2012 3.7 1.08 1.5 0.031 0.01 0.06 0.64 46.00 16 7.55 87 11.3 28.20 | 31 | | 8/6/2012 | 3.6 | 1.28 | 1.5 | 0.022 | 0.01 | 0.01 | 0.53 | 53.55 | 20 | | 86 | | 21.30 |
| | 31 | Melody L | 8/20/2012 | 3.7 | 1.08 | 1.5 | 0.031 | 0.01 | 0.06 | 0.64 | 46.00 | 16 | 7.55 | 87 | 11.3 | 28.20 |

| Libum Piname Date Zhot Zeaf Zeamp Tot. No.3 NiH4 Tot. Tot. Tot. Tot. Conces Cal. Chi.a | LNum | PName | Date | 7hot | 7sd | Zsamp | Tot P | NO3 | NH4 | TDN | TN/TP | TColor | nН | Cond25 | Ca | Chl.a |
|--|------|----------|-----------|------|-------|-------|-------|------|------|------|--------|--------|------|--------|-----|-------|
| 31 Melody L 91/62012 37 15.60 15. 0.033 0.04 0.44 0.84 2.73 2.46 6.88 89 89 0.30 31 Melody L 61/52013 4.1 1.68 1.5 0.033 0.04 0.44 0.44 2.73 2.46 6.88 89 89 0.30 31 Melody L 61/52013 4.1 2.06 1.5 0.033 0.04 0.44 0.47 2.73 2.46 6.88 89 0.30 31 Melody L 62/92013 4.1 2.06 1.5 0.076 0.01 0.03 0.07 4.07 2.73 2.46 6.88 89 0.30 3.53 | | | | | | | | | | | | | _ | | Oa | |
| 31 Melody L 10/8/2012 3.7 1.58 1.5 0.023 0.04 0.24 0.64 42.73 2.4 6.38 89 8.30 | | | | | | | | | | | | | | | | |
| 31 Melody L 67/5/2013 4.1 1.68 1.5 0.023 0.04 0.24 0.64 42.73 8.33 83 10.20 31 Melody L 67/5/2013 3.8 2.18 1.5 0.020 0.03 0.47 0.283 2.5 7.39 85 6.70 31 Melody L 77/5/2013 3.8 2.18 1.5 0.020 0.03 0.35 37.73 31 7.5 82 32 33 Melody L 87/5/2013 4.0 1.38 1.5 0.028 0.03 0.55 5.73 31 7.5 82 33 Melody L 87/5/2013 4.0 1.38 1.5 0.028 0.08 0.56 69.75 38 7.93 80 2.390 31 Melody L 87/5/2013 4.2 0.88 1.5 0.008 0.01 0.14 0.11 0.55 4.34 35 9.16 81 35 3.30 31 Melody L 97/202013 7.0 0.88 1.5 0.008 0.01 0.12 0.62 1.44 3.3 31 Melody L 97/202013 7.0 0.88 1.5 0.008 0.00 0.08 4.66 37 7.94 7.9 34.90 31 Melody L 97/202013 4.0 2.25 1.5 0.023 0.01 0.04 0.04 0.074 2.27 7.24 102 8.0 4.90 31 Melody L 67/7/2014 3.8 2.55 1.5 0.023 0.04 0.04 0.074 2.27 7.24 102 8.0 4.90 31 Melody L 77/202014 3.8 2.55 1.5 0.023 0.04 0.04 0.074 2.7 7.24 102 8.0 4.90 31 Melody L 77/202014 3.8 1.75 0.025 0.02 0.03 0.04 0.05 0.05 0.074 0.05 0.05 31 Melody L 77/202014 3.8 1.75 0.025 0.02 0.03 0.04 0.05 | | | | | | | | | | | | | | | | |
| 31 Melody L 62/92013 3.8 2.18 1.5 0.020 0.31 0.31 0.32 0.73 3.8 0.32 0.33 0.34 0.34 0.34 0.35 0.3 | | | | | | | | | | | | | | | | |
| 31 Melody L 7/29/2013 40 1.73 1.5 0.020 0.03 0.03 0.03 5.03 5.73 25 7.39 85 6.70 | | | | | | | | | | | | 25 | | | | |
| 31 Melody L 7/29/2013 40 1.73 1.5 0.020 0.03 0.53 67.37 31 7.57 82 23.90 31 Melody L 87/25/2013 40 1.93 1.5 0.028 0.68 69.75 36 7.93 80 23.90 31 Melody L 97/25/2013 4.2 0.88 1.5 0.008 0.68 47.67 55 7.34 75 35.30 31 Melody L 97/25/2013 4.2 0.88 1.5 0.008 0.68 46.67 55 7.34 75 35.30 31 Melody L 107/25/2013 4.2 0.88 1.5 0.008 0.68 46.67 55 7.34 75 35.30 31 Melody L 107/25/2013 4.1 0.80 1.5 0.030 0.63 46.66 37 7.94 79 34.90 31 Melody L 67/27/2014 4.0 2.25 1.5 0.022 0.01 0.40 0.40 40.74 27 7.24 102 80 4.90 2.31 Melody L 77/22/2014 4.1 1.65 1.5 0.018 0.01 0.40 4.66 57.67 23 3.19 94 10.60 31 Melody L 77/22/2014 4.1 1.65 1.5 0.018 0.01 0.40 4.66 57.67 23 3.19 94 10.60 31 Melody L 77/22/2014 4.1 1.65 1.5 0.018 0.01 0.40 4.66 57.67 23 3.19 94 10.60 31 Melody L 77/22/2014 4.1 1.65 1.5 0.018 0.01 0.40 4.66 57.67 23 3.19 94 10.60 31 Melody L 77/22/2014 3.9 2.15 1.5 0.026 0.025 0.02 0.03 0.48 43.11 11 8.00 99 8.40 31 Melody L 87/22/2014 4.1 1.75 1.5 0.026 0.52 4.40 2.4 7.58 95 7.60 31 Melody L 87/22/2014 4.1 1.70 1.5 0.025 0.02 0.03 0.48 43.11 11 8.00 99 9.2 12.30 31 Melody L 97/22/2014 4.1 1.70 1.5 0.025 0.02 0.03 0.48 43.11 11 8.00 99 9.2 12.30 31 Melody L 97/22/2014 4.1 1.75 1.5 0.026 0.524 4.40 2.4 7.58 85 7.60 6.80 31 Melody L 97/22/2014 4.1 1.75 1.5 0.026 0.524 4.40 2.4 7.58 85 7.60 6.80 31 Melody L 0.027/21/2009 3.00 0.018 0.019 0.022 | | | | | | | | | | | | | | | | |
| 31 Melody L 872/2013 4.0 1.38 1.5 0.028 0.65 69.75 36 7.93 80 23.90 31 Melody L 972/2013 4.2 0.88 1.5 0.031 0.14 0.11 0.55 43.84 35 0.15 81 35.40 31 Melody L 972/2013 42 0.88 1.5 0.030 0.68 47.67 55 7.34 75 35.30 31 Melody L 972/2013 4.1 0.80 1.5 0.030 0.10 0.12 0.62 646.33 31 Melody L 972/2014 4.0 2.25 1.5 0.022 0.01 0.04 0.40 40.74 27 7.24 102 8.0 4.90 31 Melody L 617/2013 4.1 0.80 1.5 0.030 0.68 46.66 37 7.94 79 34.90 31 Melody L 617/2014 3.8 2.5 1.5 0.023 0.01 0.04 0.40 40.74 27 7.24 102 8.0 4.90 31 Melody L 772/2014 3.8 2.5 1.5 0.023 0.01 0.04 0.46 57.67 2.3 8.19 94 10.60 31 Melody L 772/2014 4.1 1.85 1.5 0.025 0.02 0.03 0.48 43.11 11 8.00 99 9.2 12.30 31 Melody L 84/8/2014 3.8 1.75 1.5 0.025 0.02 0.03 0.48 43.11 11 8.00 99 9.2 12.30 31 Melody L 84/8/2014 4.1 1.35 1.5 0.025 0.02 0.03 0.48 43.11 11 8.00 99 9.2 12.30 31 Melody L 972/2014 4.1 1.35 1.5 0.025 0.02 0.03 0.48 43.11 11 8.00 99 9.2 12.30 31 Melody L 972/2014 4.1 1.35 1.5 0.025 0.02 0.03 0.04 0.53 49.71 35 7.64 87 16.30 31 Melody L 0.069/2009 3.0 0.018 0.01 0.42 39.02 37 7.25 80 6.80 31 Melody L 0.069/2009 3.0 0.018 0.01 0.01 0.02 0.02 0.03 0.00 | | | | | | | | 0.03 | 0.03 | | | | | | | |
| 31 Melody L 9715/2013 4.2 0.88 1.5 0.003 0.14 0.11 0.55 43.84 35 9.15 81 35.40 31 Melody L 9715/2013 4.2 0.88 1.5 0.008 0.88 47.67 55 7.34 75 35.30 31 Melody L 1071/2013 971 0.80 1.5 0.022 0.10 0.62 646.33 0.88 47.67 55 7.34 75 35.30 31 Melody L 1071/2013 4.1 0.80 1.5 0.022 0.01 0.62 646.33 0.88 4.90 0.83 48.66 37 7.94 79 34.90 31 Melody L 6727/2014 3.8 2.25 1.5 0.022 0.01 0.04 0.44 0.47 2.7 7.24 102 8.0 4.90 3.1 31 Melody L 7772/2014 3.8 2.25 1.5 0.022 0.01 0.04 0.46 57.67 2.3 8.19 94 10.80 3.1 Melody L 7772/2014 3.8 1.75 1.5 0.025 0.02 0.03 0.43 41.65 22 7.37 90 7.00 7 | 31 | Melody L | | 4.0 | | 1.5 | | | | | | 36 | | 80 | | 23.90 |
| 31 Melody L 9/20/2013 grab bloom 0.01 0.12 0.62 164.33 | 31 | | | 3.7 | 0.83 | | | 0.14 | 0.11 | 0.55 | 43.84 | 35 | | 81 | | 35.40 |
| 31 Melody L 9/20/2013 grab bloom 0.01 0.12 0.62 164.33 | | Melody L | | 4.2 | 0.88 | 1.5 | | | | | | 55 | 7.34 | 75 | | 35.30 |
| 31 Melody L 6/37/2013 4.1 0.80 1.5 0.30 0.63 46.66 37 7.94 7.9 34.90 31 Melody L 6/37/2014 4.0 2.25 1.5 0.022 0.01 0.04 0.4 0.74 2.7 7.24 10.8 0.4 9.0 31 Melody L 7/72/2014 3.8 2.25 1.5 0.023 0.04 0.4 0.4 0.74 2.7 7.24 10.8 31 Melody L 7/72/2014 4.1 1.85 1.5 0.021 0.04 0.46 57.67 23 8.19 94 0.80 31 Melody L 7/72/2014 4.1 1.85 1.5 0.021 0.49 52.18 2.1 7.80 99 8.40 31 Melody L 8/42/014 3.8 1.75 1.5 0.025 0.02 0.03 0.48 43.11 11 8.00 99 9.2 12.30 31 Melody L 8/42/014 3.8 1.75 1.5 0.026 0.52 44.08 24 7.58 95 7.60 31 Melody L 8/43/2014 4.0 1.70 1.5 0.023 0.01 0.01 0.49 52.18 2.1 7.80 99 9.2 12.30 32 Melody L 8/43/2014 4.0 1.70 1.5 0.023 0.01 0.01 0.49 3.2 3.02 3.7 2.5 80 6.80 31 Melody L 8/43/2014 4.0 1.70 1.5 0.023 0.01 0.01 0.43 3.0 3.7 7.25 80 6.80 32 Melody L 8/47/2009 3.0 0.014 0.01 3.3 0.014 0.01 3.3 Melody L 0.672/2009 3.0 0.014 0.01 3.3 Melody L 0.672/2009 3.0 0.014 0.01 3.3 Melody L 0.672/2009 3.0 0.024 0.02 0.02 3.3 0.02 0.02 3.3 Melody L 0.0721/2009 3.0 0.024 0.02 0.02 3.3 Melody L 0.0721/2009 3.0 0.024 0.02 0.02 0.03 0.01 0.03 0.03 0.03 0.02 0.03 | 31 | Melody L | 9/20/2013 | grab | bloom | | | 0.01 | 0.12 | 0.62 | 164.33 | | | | | |
| 31 | 31 | Melody L | 10/1/2013 | grab | bloom | | | | | | | | | | | |
| 31 Melody L 77/2014 3.8 2.25 1.5 0.023 0.43 41.65 22 7.37 90 7.00 | 31 | Melody L | 9/27/2013 | 4.1 | 0.80 | 1.5 | 0.030 | | | 0.63 | 46.66 | 37 | 7.94 | 79 | | 34.90 |
| 31 Melody L 77/2014 3.9 2.15 1.5 0.018 0.01 0.04 0.46 57.67 23 8.19 94 10.60 | 31 | | 6/3/2014 | 4.0 | | 1.5 | 0.022 | 0.01 | 0.04 | 0.40 | 40.74 | 27 | | 102 | 8.0 | 4.90 |
| 31 | 31 | Melody L | 6/17/2014 | 3.8 | 2.25 | 1.5 | 0.023 | | | 0.43 | 41.65 | 22 | 7.37 | 90 | | 7.00 |
| 31 | | | | 3.9 | | | | 0.01 | 0.04 | | 57.67 | 23 | | 94 | | 10.60 |
| 31 | | | | 4.1 | 1.85 | 1.5 | 0.021 | | | 0.49 | 52.18 | 21 | 7.80 | 99 | | 8.40 |
| 31 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/1/2014 4.0 1.70 1.5 0.023 0.01 0.01 0.42 39.02 37 7.25 80 6.80 | | | | | | | | 0.02 | 0.03 | | | | | | 9.2 | |
| Section | | | | | | | | | | | | | | | | |
| Num | | | | | | | | 0.01 | 0.01 | | | | | | | |
| 31 Melody L 06/17/2009 3.0 0.018 0.01 | 31 | Melody L | 9/23/2014 | 4.1 | 1.35 | 1.5 | 0.024 | | | 0.53 | 49.71 | 35 | 7.64 | 87 | | 16.30 |
| 31 Melody L 06/17/2009 3.0 0.018 0.01 | ļ.,. | | | | | | _ | | | | ļ | | | ļ | | |
| Melody L 06/29/2009 3.0 0.014 0.01 | | | | Zbot | Zsd | | | NO3 | | | | | | | | NO2 |
| Melody L 07/21/2009 3.0 0.021 0.02 | | | | | | | | | | | | | | | | |
| Melody L 08/11/2009 3.0 0.048 0.01 | | | | | | | | | | | | | | | | |
| 31 Melody L 08/21/2009 3.0 0.034 0.07 | | | | | | | | | | | | | | | | |
| 31 Melody L 09/11/2009 3.0 0.023 0.01 3.1 Melody L 09/24/2009 3.0 0.023 0.011 3.1 Melody L 10/19/2009 3.0 0.028 0.011 3.1 Melody L 5/16/2010 3.8 0.019 0.20 0.04 3.1 Melody L 6/7/2010 4.2 0.029 0.04 3.1 Melody L 7/6/2010 4.2 0.023 0.02 0.03 3.1 Melody L 7/6/2010 4.2 0.023 0.02 0.03 3.1 Melody L 7/6/2010 4.2 0.023 0.02 0.03 3.1 Melody L 7/26/2010 4.1 0.036 0.15 0.03 0.15 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.02 0.03 | | | | | | | | | | | | | | | | |
| 31 Melody L 09/24/2009 3.0 0.023 0.01 | | | | | | | | | | | | | | | | |
| 31 Melody L 10/19/2009 3.0 0.028 0.01 0.20 0.20 0.21 0.20 0.21 0.22 0.04 0.23 0.02 0.04 0.23 0.02 0.04 0.23 0.02 0.02 0.04 0.23 0.02 | | | | | | | | | | | | | | | | |
| 31 Melody L 5/16/2010 3.8 0.019 0.20 0.04 31 Melody L 6/7/2010 4.2 0.023 0.02 31 Melody L 7/6/2010 4.2 0.023 0.02 31 Melody L 7/6/2010 4.2 0.023 0.02 31 Melody L 7/26/2010 4.0 0.025 0.03 31 Melody L 7/26/2010 4.1 0.036 0.15 31 Melody L 8/23/2010 4.1 0.036 0.15 31 Melody L 8/23/2010 4.4 0.029 0.19 31 Melody L 10/10/2010 4.4 0.029 0.19 31 Melody L 6/13/2011 4.1 3.0 0.016 0.05 31 Melody L 6/13/2011 4.1 3.0 0.016 0.05 31 Melody L 6/13/2011 4.1 3.0 0.027 0.06 0.01 31 Melody L 7/19/2011 4.1 3.0 0.027 0.06 0.01 31 Melody L 8/6/2011 3.9 3.0 0.023 0.02 0.06 0.01 31 Melody L 8/6/2011 3.9 3.0 0.025 0.06 0.01 31 Melody L 8/6/2011 3.9 3.0 0.028 0.12 0.01 31 Melody L 8/29/2011 4.4 3.0 0.028 0.12 0.01 31 Melody L 9/13/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/13/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.06 0.01 0.01 31 Melody L 9/27/2011 3.8 3.0 0.030 0.10 0.06 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 0.00 31 Melody L 8/6/2012 2.7 0.025 0.06 0.00 0.00 31 Melody L 8/6/2012 2.2 0.077 0.05 0.06 0.00 31 Melody L 8/6/2012 2.2 0.017 0.05 0.00 0.00 31 Melody L 9/27/2013 2.5 0.023 0.01 0.00 31 Melody L 9/15/2013 2.5 0.023 0.01 0.00 | | | | | | | | | | | | | | | | |
| 31 Melody L 6/7/2010 4.2 0.029 0.04 | | | | 0.0 | | 3.0 | | | | | | | | | | |
| 31 Melody L 6/22/2010 4.2 0.023 0.02 0.03 | | | | | | | | | | | | | | | | |
| 31 Melody L 7/6/2010 4.2 0.023 0.02 0.03 0.31 31 Melody L 8/23/2010 4.1 0.036 0.15 0.31 31 Melody L 8/23/2010 4.1 0.036 0.15 0.31 31 Melody L 8/20/2010 3.8 0.027 0.16 0.31 31 Melody L 9/20/2010 4.4 0.029 0.19 0.31 31 Melody L 10/10/2010 4.4 0.029 0.19 0.01 31 Melody L 6/32/2011 4.1 3.0 0.016 0.05 0.01 31 Melody L 6/28/2011 4.1 3.0 0.027 0.06 0.01 31 Melody L 8/28/2011 4.1 3.0 0.023 0.02 0.01 31 Melody L 8/6/2011 3.9 3.0 0.025 0.06 0.01 31 Melody L 8/6/2011 3.9 3.0 0.025 0.06 0.01 31 Melody L 8/32/2011 4.2 3.0 0.028 0.12 0.01 31 Melody L 8/33/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.06 0.06 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 8/6/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.2 0.031 0.17 0.05 0.00 31 Melody L 8/6/2012 2.2 0.031 0.17 0.00 0.00 31 Melody L 8/6/2013 2.5 0.023 0.31 0.03 0.01 0.00 0.00 31 Melody L 8/15/2013 2.5 0.022 0.31 0.03 0.01 0.00 | | | | | | | | | | | | | | | | |
| 31 Melody L 7/26/2010 4.0 0.025 0.03 0.15 0.03 0.15 0.03 0.15 0.03 0.15 0.03 0.15 0.03 0.16 0.027 0.16 0.027 0.16 0.029 0.19 0.19 0.01 0.01 0.05 0.01 0.01 0.01 0.05 0.01 | | | | | | | | | | | | | | | | |
| 31 Melody L 8/23/2010 4.1 0.036 0.15 0.027 0.16 0.15 0.027 0.16 0.15 0.027 0.16 0.027 0.16 0.028 0.19 0.028 0.19 0.018 0.027 0.16 0.05 0.018 0.018 0.027 0.06 0.05 0.018 0.018 0.028 0.027 0.06 0.018 0.018 0.028 0.027 0.06 0.018 0.018 0.028 0 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/20/2010 3.8 0.027 0.16 0.029 0.19 0.19 0.01 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.01 0.05 0.01 0.01 0.01 0.01 0.05 0.01 | | | | | | | | | | | | | | | | |
| 31 Melody L 10/10/2010 4.4 | | | | | | | | | | | | | | | | |
| 31 Melody L 6/13/2011 4.1 3.0 0.016 0.05 0.01 31 Melody L 6/28/2011 4.0 3.0 0.027 0.06 0.01 31 Melody L 7/19/2011 4.1 3.0 0.023 0.02 0.01 31 Melody L 8/6/2011 3.9 3.0 0.025 0.06 0.01 31 Melody L 8/6/2011 4.2 3.0 0.028 0.12 0.01 31 Melody L 8/29/2011 4.2 3.0 0.028 0.12 0.01 31 Melody L 9/13/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.06 0.06 0.01 31 Melody L 9/27/2011 3.8 3.0 0.030 0.10 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 8/6/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.2 0.030 0.06 0.00 31 Melody L 9/16/2012 2.2 0.031 0.14 0.00 31 Melody L 9/16/2012 2.2 0.031 0.17 0.00 31 Melody L 9/16/2013 2.6 0.018 0.02 0.00 31 Melody L 7/15/2013 2.5 0.022 0.33 0.03 0.03 0.03 31 Melody L 8/12/2013 2.5 0.022 0.33 0.03 0.03 0.03 0.03 0.00 0.0 | | | | | | | | | | | | | | | | |
| 31 Melody L 6/28/2011 4.0 3.0 0.027 0.06 0.01 31 Melody L 7/19/2011 4.1 3.0 0.023 0.02 0.06 31 Melody L 8/6/2011 3.9 3.0 0.025 0.06 0.01 31 Melody L 8/29/2011 4.2 3.0 0.028 0.12 0.01 31 Melody L 9/13/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.06 0.06 0.01 31 Melody L 10/2/2011 3.8 3.0 0.030 0.10 0.01 31 Melody L 10/2/2012 2.7 0.026 0.02 0.00 0.01 31 Melody L 6/12/2012 2.7 0.025 0.06 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.02 0.00 31 Melody L 8/6/2012 2.2 0.017 0.05 0.00 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 0.00 31 Melody L 9/16/2012 2.2 0.031 0.17 0.00 0.00 31 Melody L 6/15/2013 2.5 0.023 0.31 0.01 0.00 0.00 31 Melody L 6/15/2013 2.5 0.023 0.31 0.03 0.06 0.00 | | , | | | | 3.0 | | | | | | | | | | 0.01 |
| 31 Melody L 7/19/2011 4.1 3.0 0.023 0.02 0.06 0.01 | | | | | | | | | | | | | | | | |
| 31 Melody L 8/6/2011 3.9 3.0 0.025 0.06 0.01 31 Melody L 8/29/2011 4.2 3.0 0.028 0.12 0.01 31 Melody L 9/13/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.06 0.01 31 Melody L 10/2/2011 3.8 3.0 0.030 0.10 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 8/6/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.022 0.03 0.03 0.03 31 Melody L 8/25/2013 2.5 0.022 0.03 0.03 0.03 0.03 0.03 0.03 0.05 0.00 0.0 | | | | | | | | | | | | | | | | |
| 31 Melody L 8/29/2011 4.2 3.0 0.028 0.12 0.01 31 Melody L 9/13/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.06 0.01 31 Melody L 10/2/2011 3.8 3.0 0.030 0.10 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 6/25/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.023 0.03 0.03 0.03 0.00 31 Melody L 8/12/2013 2.5 0.022 0.03 0.03 0.03 0.00 0.0 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/13/2011 4.4 3.0 0.022 0.10 0.01 31 Melody L 9/27/2011 4.0 3.0 0.06 0.01 31 Melody L 10/2/2011 3.8 3.0 0.030 0.10 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 7/17/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/27/2011 4.0 3.0 0.06 0.01 31 Melody L 10/2/2011 3.8 3.0 0.030 0.10 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 7/17/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2013 2.5 0.023 0.02 31 Melody L 6/1 | | | | | | | | | | | | | | | | |
| 31 Melody L 10/2/2011 3.8 3.0 0.030 0.10 0.01 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 7/17/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/6/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.023 0.03 0.03 31 Melod | | | | | | | 5.522 | | | | | | | | | |
| 31 Melody L 6/12/2012 2.7 0.026 0.02 0.00 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 7/17/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.023 0.03 0.03 31 Melody L 7/15/2013 2.5 0.022 0.03 0.03 31 Melody L <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>0.030</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | 0.030 | | | | | | | | | |
| 31 Melody L 6/25/2012 2.7 0.025 0.06 0.00 31 Melody L 7/17/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.023 0.03 0.00 31 Melody L 7/15/2013 2.5 0.022 0.03 0.03 31 Melody L 8/12/2013 2.5 0.022 0.03 0.03 31 Melody L 8/25/2013 2.2 0.030 0.03 0.03 31 Melody | | | | 3.0 | | | | | | | | | | | | |
| 31 Melody L 7/17/2012 2.2 0.017 0.05 0.00 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.023 0.03 0.00 31 Melody L 7/15/2013 2.3 0.022 0.03 0.00 31 Melody L 8/12/2013 2.5 0.022 0.03 0.03 31 Melody L 8/25/2013 2.2 0.030 0.03 0.03 31 Melody L <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | | | | | | | | | | | | | | | |
| 31 Melody L 8/6/2012 2.0 0.023 0.01 0.00 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.023 0.03 0.00 31 Melody L 7/15/2013 2.3 0.022 0.03 0.03 31 Melody L 8/12/2013 2.5 0.022 0.03 0.03 31 Melody L 8/25/2013 2.2 0.030 0.03 0.03 31 Melody L 9/15/2013 2.7 0.014 0.12 0.12 31 Melody L <td< td=""><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | • | | | | | | | | | | | | | | |
| 31 Melody L 8/20/2012 2.2 0.027 0.02 0.00 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.00 31 Melody L 6/29/2013 2.5 0.023 0.03 0.03 31 Melody L 7/15/2013 2.3 0.022 0.03 0.03 31 Melody L 8/12/2013 2.5 0.022 0.03 0.03 31 Melody L 8/25/2013 2.2 0.030 0.03 0.03 31 Melody L 9/15/2013 2.7 0.014 0.12 0.12 31 Melody L 9/27/2013 2.6 0.029 0.03 0.03 31 Melody L 6/3/2014 2.5 0.037 0.03 0.03 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/3/2012 2.1 0.025 0.14 0.00 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.02 31 Melody L 6/29/2013 2.5 0.023 0.03 0.03 31 Melody L 7/15/2013 2.3 0.022 0.03 0.03 31 Melody L 8/12/2013 2.5 0.022 0.03 0.03 31 Melody L 8/25/2013 2.2 0.030 0.03 0.03 31 Melody L 9/15/2013 2.7 0.014 0.12 0.12 31 Melody L 9/27/2013 2.6 0.029 0.03 31 Melody L 6/3/2014 2.5 0.037 0.03 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/16/2012 2.2 0.030 0.06 0.00 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 31 Melody L 6/29/2013 2.5 0.023 31 Melody L 7/15/2013 2.3 0.022 0.03 31 Melody L 7/29/2013 2.5 0.022 31 Melody L 8/12/2013 2.5 0.031 0.03 31 Melody L 8/25/2013 2.2 0.030 31 Melody L 9/15/2013 2.7 0.014 0.12 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | | | 9/3/2012 | | | | | | | | | | | | | |
| 31 Melody L 10/8/2012 2.2 0.031 0.17 0.00 31 Melody L 6/15/2013 2.6 0.018 0.02 0.02 31 Melody L 6/29/2013 2.5 0.023 0.03 0.02 31 Melody L 7/15/2013 2.3 0.022 0.03 0.03 31 Melody L 8/12/2013 2.5 0.022 0.03 0.03 31 Melody L 8/25/2013 2.2 0.030 0.03 0.03 31 Melody L 9/15/2013 2.7 0.014 0.12 0.12 31 Melody L 9/27/2013 2.6 0.029 0.03 31 Melody L 6/3/2014 2.5 0.037 0.03 | | | | | | | | | | | | | | | | |
| 31 Melody L 6/15/2013 2.6 0.018 0.02 31 Melody L 6/29/2013 2.5 0.023 31 Melody L 7/15/2013 2.3 0.022 0.03 31 Melody L 7/29/2013 2.5 0.022 31 Melody L 8/12/2013 2.5 0.031 0.03 31 Melody L 8/25/2013 2.2 0.030 31 Melody L 9/15/2013 2.7 0.014 0.12 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | | | | | | | | | | | | | | | | |
| 31 Melody L 6/29/2013 2.5 0.023 31 Melody L 7/15/2013 2.3 0.022 0.03 31 Melody L 7/29/2013 2.5 0.022 31 Melody L 8/12/2013 2.5 0.031 31 Melody L 8/25/2013 2.2 0.030 31 Melody L 9/15/2013 2.7 0.014 0.12 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | | | | | | | | | | | | | | | | |
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| 31 Melody L 7/29/2013 2.5 0.022 31 Melody L 8/12/2013 2.5 0.031 31 Melody L 8/25/2013 2.2 0.030 31 Melody L 9/15/2013 2.7 0.014 0.12 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | 31 | Melody L | | | | 2.3 | | | 0.03 | | | | | | | |
| 31 Melody L 8/12/2013 2.5 0.031 0.03 31 Melody L 8/25/2013 2.2 0.030 31 Melody L 9/15/2013 2.7 0.014 0.12 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | | Melody L | | | | | | | | | | | | | | |
| 31 Melody L 8/25/2013 2.2 0.030 31 Melody L 9/15/2013 2.7 0.014 0.12 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | | | | | | | | | 0.03 | | | | | | | |
| 31 Melody L 9/15/2013 2.7 0.014 0.12 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | | Melody L | | | | 2.2 | | | | | | | | | | |
| 31 Melody L 9/27/2013 2.6 0.029 31 Melody L 6/3/2014 2.5 0.037 0.03 | | | | | | 2.7 | | | 0.12 | | | | | | | |
| | | | 9/27/2013 | | | 2.6 | 0.029 | | | | | | | | | |
| 31 Melody L 6/17/2014 2.3 0.031 | 31 | Melody L | 6/3/2014 | | | 2.5 | 0.037 | | 0.03 | | | | | | | |
| | 31 | Melody L | 6/17/2014 | | | 2.3 | 0.031 | | | | | | | | | |

| LNum | PName | Date | Zbot | Zsd | Zsamp | Tot.P | NO3 | NH4 | | | | NO2 |
|------|---------------|-----------|------|-----|-------|-------|-----|------|--|--|--|-----|
| 31 | Melody L | 7/7/2014 | | | 2.4 | 0.017 | | 0.04 | | | | |
| 31 | Melody L | 7/22/2014 | | | 2.6 | 0.021 | | | | | | |
| 31 | Melody L | 8/4/2014 | | | 2.3 | 0.026 | | 0.03 | | | | |
| 31 | Melody L | 8/18/2014 | | | 2.4 | 0.022 | | | | | | |
| 31 | Melody L | 9/1/2014 | | | 2.5 | 0.025 | | 0.02 | | | | |
| 31 | Melody L | 9/23/2014 | | | 2.6 | 0.064 | | | | | | |
| 31.1 | Melody L-trib | 06/08/03 | | | | 0.022 | | | | | | |
| 31.1 | Melody L-trib | 07/06/03 | | | | 0.029 | | | | | | |
| 31.1 | Melody L-trib | 6/28/2004 | | | | 0.038 | | | | | | |
| 31.1 | Melody L-trib | 7/13/2004 | | | | 0.038 | | | | | | |
| 31.1 | Melody L-trib | 8/2/2004 | | | | 0.029 | | | | | | |
| 31.1 | Melody L-trib | 8/16/2004 | | | | 0.024 | | | | | | |
| 31.1 | Melody L-trib | 7/9/05 | | | | 0.040 | | | | | | |
| 31.1 | Melody L-trib | 8/30/05 | | | | 0.028 | | | | | | |
| 31.1 | Melody L-trib | 9/20/05 | | | | 0.035 | | | | | | |

| | | | 1 | | | | | | | | | | AQ- | MC- | | | FP- | FP- | HΔR | Shore |
|------|----------|-----------|------|------|------|----|----|----|----|----------|----------|-------|----------|-----|-------|-----|-----|-----|-----|-------|
| LNum | PName | Date | Site | TAir | TH20 | QA | QB | QC | QD | QF | QG | AQ-PC | | LR | Ana-a | Cyl | Chl | BG | | HAB |
| 31 | Melody L | 6/12/1987 | ері | 17 | 19 | | | | | | | | | | | , | | | | |
| 31 | Melody L | 6/21/1987 | ері | 22 | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/28/1987 | ері | 18 | 22 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/5/1987 | ері | 21 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/12/1987 | ері | 26 | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/19/1987 | ері | 28 | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/26/1987 | ері | 20 | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/3/1987 | ері | 22 | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/9/1987 | epi | 17 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/16/1987 | ері | 25 | 22 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/23/1987 | epi | 15 | 21 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/30/1987 | ері | 13 | 17 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/13/1987 | epi | 17 | 20 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/20/1987 | ері | 11 | 15 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/27/1987 | ері | 11 | 14 | | | | | | | | | | | | | | | |
| 31 | Melody L | 10/4/1987 | epi | 3 | 11 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/17/1988 | ері | 24 | 22 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/26/1988 | epi | 15 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/3/1988 | epi | 24 | 18 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/10/1988 | ері | 28 | 26 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/17/1988 | epi | 26 | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/24/1988 | epi | 24 | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/29/1988 | epi | 30 | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/7/1988 | epi | 22 | 26 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/14/1988 | epi | 30 | 26 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/21/1988 | epi | 20 | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/28/1988 | ері | 25 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/4/1988 | epi | 16 | 19 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/11/1988 | ері | 15 | 19 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/18/1988 | ері | 20 | 17 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/25/1988 | ері | 15 | 16 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/2/1989 | ері | 34 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/9/1989 | epi | 32 | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/16/1989 | epi | 20 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/23/1989 | epi | 22 | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/30/1989 | epi | 22 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/5/1989 | epi | 26 | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/13/1989 | epi | 23 | 21 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/20/1989 | ері | 19 | 22 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/27/1989 | epi | 21 | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/4/1989 | epi | 14 | 20 | | - | | | | | | | | | | - | | | |
| 31 | Melody L | 9/10/1989 | epi | 25 | 21 | | | | | | | | | | | | - | | | |
| 31 | Melody L | 9/17/1989 | epi | 18 | 16 | | - | | | | | | | | | | - | | | |
| 31 | Melody L | 9/24/1989 | epi | 7 | 15 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/8/1990 | epi | 21 | 22 | | | | | <u> </u> | <u> </u> | | <u> </u> | | | | | | 1 | |

| Name | | | | | | | | | | | l . | | | AQ- | MC- | | | FP- | FP- | HAB | Shore |
|--|------|----------|-----------|------|------|------|----|----|----|----|-----|----|-------|-----|-----|-------|-----|-----|-----|-----|---|
| Melody L 778/1990 op 28 27 | LNum | PName | Date | Site | TAir | TH20 | QA | QB | QC | QD | QF | QG | AQ-PC | | | Ana-a | Cyl | | | | |
| Molody L 7/29/1990 op 28 27 | 31 | | | epi | | | | | | | | | | | | | | | | | |
| Melody L | 31 | Melody L | | | | | | | | | | | | | | | | | | | |
| Melody L. 82/81990 ep 15 20 | 31 | | | epi | | | | | | | | | | | | | | | | | |
| Melody L 92/31990 ep 116 20 | 31 | | | | | | | | | | | | | | | | | | | | |
| 31 Melody L. 973/1990 epi 11 15 | 31 | Melody L | | | | | | | | | | | | | | | | | | | |
| 31 Melody L 67801991 epi 22 22 c c c c c c c | 31 | Melody L | 9/23/1990 | | 11 | 15 | | | | | | | | | | | | | | | |
| 31 Melody L. 6730/1991 epi 22 25 | 31 | | | epi | 24 | 22 | | | | | | | | | | | | | | | |
| 31 Melody L 778/1991 epi 30 25 27 | | | | | | | | | | | | | | | | | | | | | |
| 31 Melody L 7/28/1991 ep 21 21 21 | 31 | | | | 22 | 27 | | | | | | | | | | | | | | | |
| Melody L 8/11/1991 ep 21 21 | 31 | Melody L | 7/28/1991 | | 30 | 25 | | | | | | | | | | | | | | | |
| 31 Melody L 9/15/1991 epi 20 20 c c c c c c c c c | | | | _ | | | | | | | | | | | | | | | | | |
| 31 Melody L 9/15/1991 epi 20 20 c c c c c c c c c | 31 | Melody L | 8/25/1991 | epi | 23 | 24 | | | | | | | | | | | | | | | |
| Melody L 7/18/1994 epi | 31 | Melody L | | | | 20 | | | | | | | | | | | | | | | |
| Melody L 6/18/1994 epi 2 3 3 2 . | 31 | Melody L | 9/22/1991 | ері | 12 | 17 | | | | | | | | | | | | | | | |
| Melody L 77/3/1994 epi 3 3 3 2 . | 31 | Melody L | 6/18/1994 | | | | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| Melody L Richard Ric | 31 | Melody L | | epi | | | 3 | 3 | 3 | 2 | | | | | | | | | | | |
| Melody L 81/4/1994 epi | 31 | Melody L | 7/18/1994 | epi | | | 3 | 3 | 3 | 2 | | | | | | | | | | | |
| Melody L 88/14/1994 epi | 31 | Melody L | 7/31/1994 | ері | | | 3 | 3 | 3 | 3 | | | | | | | | | | | |
| Melody L 8/28/1994 epi mail | 31 | Melody L | 8/14/1994 | | | | 3 | | 3 | 3 | | | | | | | | | | | |
| Melody L G/1/1997 epi 19 18 1 1 2 5 5 | 31 | Melody L | 8/28/1994 | | | | 3 | 3 | 3 | 3 | | | | | | | | | | | |
| 31 | 31 | Melody L | 6/1/1997 | epi | 19 | 18 | 1 | 1 | 2 | 5 | | | | | | | | | | | |
| Melody L 6/29/1997 epi 29 27 2 2 1 | 31 | | | | | 25 | | 2 | 2 | 1 | | | | | | | | | | | |
| Melody L Molody L | 31 | Melody L | 6/29/1997 | ері | | 27 | 2 | 2 | 1 | | | | | | | | | | | | |
| 31 | 31 | Melody L | 7/13/1997 | | | 26 | 2 | 1 | 2 | | | | | | | | | | | | |
| Melody L 8/24/1997 epi 23 22 2 3 3 2 | 31 | Melody L | 7/27/1997 | ері | 29 | 26 | 2 | 3 | 2 | | | | | | | | | | | | |
| 31 Melody L 9/8/1997 epi 18 21 2 4 4 2 | 31 | Melody L | 8/10/1997 | epi | 29 | 26 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | 31 | Melody L | 8/24/1997 | ері | 23 | 22 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | 31 | | 9/8/1997 | ері | 18 | 21 | 2 | 4 | 4 | 2 | | | | | | | | | | | |
| 31 | 31 | | 5/30/1998 | ері | 25 | 25 | 2 | 2 | 2 | 25 | | | | | | | | | | | |
| 31 | 31 | Melody L | 6/15/1998 | epi | 19 | 20 | 1 | 1 | 1 | | | | | | | | | | | | |
| 31 | 31 | Melody L | 6/28/1998 | epi | 32 | 27 | 2 | 1 | 2 | 5 | | | | | | | | | | | |
| 31 | 31 | | 7/12/1998 | ері | 21 | 24 | 2 | 2 | 2 | | | | | | | | | | | | |
| 31 | 31 | Melody L | 7/26/1998 | ері | 25 | 25 | 2 | 2 | 2 | 2 | | | | | | | | | | | |
| 31 | 31 | Melody L | 8/8/1998 | epi | 27 | 26 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | 31 | Melody L | 8/23/1998 | ері | 28 | | 2 | 3 | 3 | | | | | | | | | | | | |
| 31 | 31 | Melody L | 9/7/1998 | epi | 17 | 23 | 2 | 3 | 3 | 25 | | | | | | | | | | | |
| 31 | 31 | | 5/31/1999 | ері | 32 | 23 | 2 | 2 | 2 | | | | | | | | | | | | |
| 31 | 31 | Melody L | 6/13/1999 | ері | | | 2 | 2 | | 25 | | | | | | | | | | | |
| 31 | 31 | Melody L | 6/29/1999 | ері | 29 | 26 | 2 | 2 | 2 | | | | | | | | | | | | |
| 31 Melody L 8/7/1999 epi 27 25 2 3 2 2 | 31 | Melody L | 7/11/1999 | ері | 22 | 25 | 2 | 1 | 1 | | | | | | | | | | | | |
| 31 Melody L 8/22/1999 epi 26 23 2 3 2 | 31 | Melody L | 7/26/1999 | ері | 27 | 27 | 1 | 2 | 2 | | | | | | | | | | | | |
| 31 Melody L 9/5/1999 epi 27 26 2 3 2 | 31 | Melody L | | ері | | | | | | 2 | | | | | | | | | | | |
| 31 Melody L 5/29/2000 epi 20 18 2 2 2 <td< td=""><td>31</td><td>Melody L</td><td>8/22/1999</td><td>ері</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | 31 | Melody L | 8/22/1999 | ері | | | | | | | | | | | | | | | | | |
| 31 Melody L 6/12/2000 epi 22 23 2 | 31 | Melody L | | ері | | | | | | | | | | | | | | | | | |
| 31 Melody L 6/25/2000 epi 32 25 2 2 2 2 2 2 2 2 2 2 3 3 3 2 3 3 3 2 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 | 31 | | | ері | | | | 2 | 2 | | | | | | | | | | | | |
| 31 Melody L 7/10/2000 epi 25 23 2 3 3 2 . | 31 | Melody L | | ері | | | | 2 | | | | | | | | | | | | | |
| 31 Melody L 7/23/2000 epi 25 21 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 31 | Melody L | 6/25/2000 | ері | | | | 2 | 2 | 2 | | | | | | | | | | | |
| 31 Melody L 8/7/2000 epi 31 24 2 2 3 2 | 31 | | | ері | | | | | | | | | | | | | | | | | |
| 31 Melody L 8/20/2000 epi 19 22 2 3 2 5 . | 31 | | | ері | 25 | | | 2 | 2 | 2 | | | | | | | | | | | |
| 31 Melody L 9/9/2000 epi 25 22 3 3 2 | 31 | | 8/7/2000 | | | | | 2 | 3 | 2 | | | | | | | | | | | |
| 31 Melody L 6/12/2001 epi 25 23 2 1 2 < | | | | ері | | | | | | 5 | | | | | | | | | | | |
| 31 Melody L 6/24/2001 epi 26 21 3 1 3 1 <td>31</td> <td>Melody L</td> <td></td> <td>ері</td> <td></td> <td></td> <td></td> <td>3</td> <td></td> | 31 | Melody L | | ері | | | | 3 | | | | | | | | | | | | | |
| 31 Melody L 7/9/2001 epi 25 23 2 1 1 </td <td>-</td> <td></td> <td></td> <td>ері</td> <td></td> | - | | | ері | | | | | | | | | | | | | | | | | |
| 31 Melody L 7/23/2001 epi 28 27 2 2 2 2 9 9 9 28 2 3 3 2 9 9 9 28 2 3 3 2 9 9 9 9 9 28 2 3 2 9 9 9 9 9 28 2 3 2 9 9 9 9 9 28 2 3 3 2 9 9 9 9 9 28 2 3 3 2 9 9 9 9 9 9 28 2 3 3 2 9 9 9 9 9 9 9 28 2 3 3 2 9 | 31 | Melody L | | ері | | | | 1 | 3 | 1 | | | | | | | | | | | |
| 31 Melody L 8/6/2001 epi 28 2 3 3 2 <td>31</td> <td>Melody L</td> <td>7/9/2001</td> <td>ері</td> <td></td> | 31 | Melody L | 7/9/2001 | ері | | | | | | | | | | | | | | | | | |
| 31 Melody L 8/25/2001 epi 29 25 2 3 2 2 9/9/2001 2 2 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 3 2 3 3 3 2 3 | | | | ері | 28 | | | | | | | | | | | | | | | | |
| 31 Melody L 9/9/2001 epi 26 24 2 3 3 2 <td></td> <td></td> <td></td> <td>ері</td> <td></td> | | | | ері | | | | | | | | | | | | | | | | | |
| 31 Melody L 9/23/2001 epi 23 21 2 3 3 2 | 31 | | | ері | | | | | | | | | | | | | | | | | لــــــــــــــــــــــــــــــــــــــ |
| | | | | ері | | | | | | | | | | | | | | | | |] |
| 31 Melody L 05/21/02 epi 16 12 2 1 5 | | | | | | | | | 3 | | | | | | | | | | | |] |
| | 31 | Melody L | 05/21/02 | ері | 16 | 12 | 2 | 1 | | 5 | | | | | | | | | | | |

| | | | | | | | | | | | | | AQ- | MC- | | | FP- | FP- | | Shore |
|----------|----------------------|------------------------|------------|----------|----------|----|----------|----|-------------|----------|----|-------|------|------|-------|-----|-----|-----|----------|-------|
| LNum | PName | Date | Site | TAir | | QΑ | QB | QC | | QF | QG | AQ-PC | Chla | LR | Ana-a | Cyl | Chl | BG | form | HAB |
| 31 | Melody L | 06/03/02 | epi | 20 | 21 | 2 | 2 | 2 | 5 | | | | | | | | | | | |
| 31 | Melody L | 06/16/02 | epi | 18 | 19 | 3 | 3 | 2 | 12 | | | | | | | | | | | |
| 31 | Melody L | 07/02/02 | epi | 28 | 25 | 3 | 3 | 3 | 28 | | | | | | | | | | | |
| 31 | Melody L | 07/13/02 | epi | 28 | 25 | 2 | 4 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 07/29/02 | epi | 28 | 26 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 08/12/02 | epi | 29 | 26 | 1 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 08/25/02 | epi | 26 | 25 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 5/27/2003 | epi | 16 | 19 | 1 | 1 | 1 | _ | | | | | | | | | | | |
| 31 | Melody L | 6/8/2003 | epi | 22 | 20 | 1 | 1 | 1 | 5 58 | | | | | | | | | | | |
| 31 | Melody L Melody L | 6/22/2003 7/6/2003 | epi | 21 25 | 20 28 | 2 | 2 | 2 | - 58 - 8 | | | | | | | | | | | |
| 31 31 | Melody L | 7/0/2003 | epi epi | 21 | 24 | 2 | 2 | 2 | 2 | | | | | | | | | | | |
| 31 | Melody L | 8/3/2003 | ері | 29 | 25 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 8/17/2003 | ері | 20 | 25 | 2 | 4 | 4 | 2 | | | | | | | | | | | |
| 31 | Melody L | 9/6/2003 | ері | 18 | 21 | | _ | 7 | | | | | | | | | | | | |
| 31 | Melody L | 6/15/2004 | epi | 26 | 24 | 1 | 1 | 1 | 0 | | | | | | | | | | | |
| 31 | Melody L | 6/29/2004 | ері | 18 | 22 | 2 | 2 | 2 | 0 | | | | | | | | | | | |
| 31 | Melody L | 7/13/2004 | epi | 21 | 24 | 2 | 2 | 2 | 0 | | | | | | | | | | | |
| 31 | Melody L | 8/2/2004 | ері | 23 | 24 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 8/16/2004 | epi | 19 | 22 | 2 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 8/31/2004 | ері | 22 | 23 | 3 | 3 | 3 | 25 | | | | | | | | | | | |
| 31 | Melody L | 9/21/2004 | epi | 17 | 19 | 3 | 3 | 3 | 2 | | | | | | | | | | | |
| 31 | Melody L | 10/24/2004 | ері | 10 | 10 | 3 | 3 | | 28 | | | | | | | | | | | |
| 31 | Melody L | 7/9/2005 | ері | 20 | 24 | 3 | 1 | 3 | 58 | | | | | | | | | | | |
| 31 | Melody L | 7/18/2005 | epi | 30 | 27 | 3 | 2 | 3 | 18 | | | | | | | | | | | |
| 31 | Melody L | 8/9/2005 | ері | 23 | 27 | 2 | 2 | 3 | 18 | | | | | | | | | | | |
| 31 | Melody L | 8/29/2005 | epi | 25 | 24 | 3 | 2 | 4 | 148 | | | | | | | | | | | |
| 31 | Melody L | 9/9/2005 | epi | 22 | 23 | 3 | 2 | 4 | 148 | | | | | | | | | | | |
| 31 | Melody L | 9/20/2005 | ері | 24 | 23 | 3 | 2 | 4 | 48 | | | | | | | | | | | |
| 31 | Melody L | 10/9/2005 | epi | 14 | 16 | 3 | 2 | 4 | 158 | | | | | | | | | | | |
| 31 | Melody L | 10/23/05 | epi | 8 | 12 | 2 | 1 | 2 | 5 | | | | | | | | | | | |
| 31 | Melody L | 5/30/2006 | epi | 21 | 20 | 1 | 1 | 1 | 0 | | | | | | | | | | | |
| 31 | Melody L Melody L | 6/13/2006 | epi | 16 | 18 26 | 2 | 2 | 2 | 0 | | | | | | | | | | | |
| 31 | Melody L | 6/25/2006 7/10/2006 | epi epi | 21 27 | 25 | 1 | 2 | 2 | 5 | | | | | | | | | | | |
| 31 | Melody L | 7/10/2006 | ері | 23 | 26 | 2 | 2 | 2 | 5 | | | | | | | | | | | |
| 31 | Melody L | 8/7/2006 | ері | 28 | 28 | 3 | 2 | 2 | 8 | | | | | | | | | | | |
| 31 | Melody L | 8/20/2006 | ері | 27 | 25 | 2 | 2 | 2 | 2 | | | | | | | | | | | |
| 31 | Melody L | 9/4/2006 | ері | 17 | 20 | | _ | _ | | | | | | | | | | | | |
| 31 | Melody L | 7/7/2007 | epi | 26 | 25 | 2 | 1 | 2 | 0 | | | | | | | | | | | |
| 31 | Melody L | 8/7/2007 | ері | 26 | 27 | 3 | 2 | 3 | 138 | | | | | | | | | | | |
| 31 | Melody L | 8/26/2007 | epi | 20 | 25 | 2 | 2 | 2 | 5 | | | | | | | | | | | |
| 31 | Melody L | 9/4/2007 | ері | 24 | 25 | 2 | 2 | 2 | 0 | | | | | | | | | | | |
| 31 | Melody L | 9/11/2007 | epi | 22 | 24 | 2 | 2 | 2 | 58 | | | | | | | | | | | |
| 31 | Melody L | 10/2/2007 | ері | 18 | 20 | 2 | 2 | 2 | 0 | | | | | | | | | | | |
| 31 | Melody L | 10/9/2007 | ері | 23 | 22 | 3 | 2 | 3 | 35 | | | | | | | | | | | |
| 31 | Melody L | 10/18/2007 | epi | 20 | 18 | 4 | 1 | 4 | 134 | | | | | | | | | | | |
| 31 | Melody L | 6/9/2008 | ері | 30 | 25 | 1 | 1 | 2 | 0 | | | | | | | | | | | |
| 31 | Melody L | 6/29/2008 | epi | 23 | 25 | 2 | 1 | 1 | 8 | | | | | | | | | | | |
| 31 | Melody L | 7/11/2008 | epi | 20 | 25 | 2 | 1 | 2 | 8 | <u> </u> | | | | | | | | | | |
| 31 | Melody L | 7/26/2008 | epi | 22 | 26 | 2 | 1 | 1 | 8 | | | | | | | | | | | |
| 31 | Melody L | 8/12/2008 | epi | 21 | 24 | 2 | 1 | 1 | 8 | - | | | | | | | | | \vdash | |
| 31 | Melody L | 8/24/2008 | epi | 27 | 25 25 | 3 | 2 | 2 | 3 | _ | | | | | | | | | \vdash | |
| 31 31 | Melody L Melody L | 9/5/2008 9/20/2008 | epi epi | 27 | 25 | 3 | 1 | 2 | 0 | - | | | | | | | | | \vdash | |
| 31 | Melody L | 06/17/2009 | epi | 16 | 23 | 1 | 1 | 1 | 0 | - | | | | | | | | | | |
| 31 | Melody L | 06/29/2009 | epi | 20 | 24 | 1 | 1 | 1 | 0 | - | | | | | | | | | | |
| 31 | Melody L | 07/21/2009 | ері | 19 | 23 | 2 | 1 | 2 | 6 | | | | | | | | | | | |
| 31 | Melody L | 08/11/2009 | epi | 20 | 23 | 3 | 1 | 5 | 14568 | | | | | 0.01 | | | | | | |
| 31 | Melody L | 08/21/2009 | ері | 24 | 26 | 2 | 1 | 1 | 0 | | | | | 0.01 | | | | | | |
| 31 | Melody L | 09/11/2009 | ері | 18 | 20 | 3 | 1 | 2 | 5 | | | 82.1 | | 0.02 | | | | | | |
| 1 | 7 = | | r · | <u> </u> | | | <u> </u> | | | · | | | · | | | | 1 | 1 | | |

| | | | | | | | 1 | 1 | | | | | AQ- | MC- | | | FP- | FP- | HΔR | Shore |
|----------|----------|----------------|------------|----------|----------|----------|--|----|-----|-----|-----|--------------|-------|-------------|----------|-------------|--------|------|----------|-------|
| LNum | PName | Date | Site | TAir | TH20 | QA | QB | QC | QD | ΩF | OG | AQ-PC | | | Ana-a | Cyl | Chl | | | HAB |
| 31 | Melody L | 09/24/2009 | epi | 17 | 20 | 2 | 1 | 2 | 0 | Q, | Q O | 74.18 | Orna | LIX | 7 tila a | - Cyi | 0111 | - 50 | 101111 | 11/10 |
| 31 | Melody L | 10/19/2009 | epi | 8 | 9 | 3 | 1 | 2 | 8 | | | 74.10 | | 0.01 | | | | | | |
| 31 | Melody L | 10/19/2009 | ері | - | <u> </u> | | <u>'</u> | | - | | | | | 2.31 | | | | | | |
| 31 | Melody L | 5/16/2010 | ері | 19 | 18 | 1 | 1 | 1 | 0 | 0 | 0 | | | 2.01 | | | | | | |
| 31 | Melody L | 6/7/2010 | ері | 22 | 23 | 1 | 1 | 2 | 5 | 0 | 0 | | | | | | | | | |
| 31 | Melody L | 6/22/2010 | epi | 23 | 25 | 1 | 1 | 1 | 5 | 0 | 0 | | | | | | | | | |
| 31 | Melody L | 7/6/2010 | • | 28 | 27 | 3 | 1 | 2 | 0 | 46 | U | | | | | | | | | |
| 31 | Melody L | 7/0/2010 | epi epi | 23 | 27 | 3 | 1 | 3 | 1 | 6 | 6 | | | | | | | | | |
| 31 | Melody L | 8/4/2010 | ploom | 23 | 21 | <u> </u> | ' | 3 | ļ | U | U | 251120 | | 0.83 | | | | | | |
| 31 | Melody L | 8/23/2010 | - | 20 | 24 | 3 | 1 | 4 | 158 | 6 | 16 | 160.00 | | 0.02 | | | | | | |
| 31 | Melody L | 9/20/2010 | epi epi | 20 17 | 19 | 2 | 1 | 2 | 5 | 0 | 0 | 170.00 | | 0.02 | | | | | | |
| 31 | Melody L | 10/10/2010 | ері | 17 | 15 | 2 | 1 | 3 | 5 | 0 | 0 | 73.00 | | 0.03 | | | | | | |
| 31 | Melody L | 6/13/2011 | epi | 15 | 21 | 2 | 1 | 2 | 5 | 0 | 0 | 14.80 | 7.00 | 0.04 | | | | | | |
| 31 | Melody L | 6/28/2011 | ері | 25 | 25 | 2 | 1 | 2 | 0 | 0 | 0 | 24.00 | 6.10 | | | | | | | |
| 31 | Melody L | 7/19/2011 | epi | 31 | 29 | 2 | 1 | 1 | 8 | 0 | 0 | 29.30 | 5.54 | | | | | | | |
| 31 | Melody L | 8/6/2011 | epi | 21 | 26 | 3 | 1 | 4 | 134 | 6 | 2 | | 11.00 | 0.54 | <0.5 | <0.1 | | | | |
| 31 | Melody L | | Bloom | <u> </u> | 20 | <u> </u> | - | 4 | 134 | U | | 07.00 | 11.00 | 6.34 | <8 | <0.4 | | | ab | |
| 31 | Melody L | | Bloom | | | | | | | | | | | 3.35 | <0.5 | <0.4 | | | สม | |
| 31 | Melody L | 8/6/2011 | Ері | | | | | | | | | - | | 0.24 | ~U.J | ~U.1 | | | | |
| 31 | Melody L | 8/6/2011 | bloom | | | | | | | | | - | | 3.57 | | | | | | |
| 31 | Melody L | 8/29/2011 | epi | 16 | 23 | 3 | 1 | 4 | 138 | 0 | 0 | 50.10 | 9.20 | 5.57 | | | | | | |
| 31 | Melody L | 9/13/2011 | ері | 25 | 20 | 3 | 1 | 4 | 1 | 0 | 0 | 40.40 | | | | | | | | |
| 31 | Melody L | 9/13/2011 | DOH | 20 | 20 | J | - '- | - | | 0 | J | 70.40 | 0.70 | 0.02 | | | | | | |
| 31 | Melody L | 9/27/2011 | ері | 19 | 21 | 2 | 1 | 3 | 156 | 0 | 0 | 101.90 | 12 20 | | | | | | | |
| 31 | Melody L | 10/2/2011 | epi | 10 | 17 | 3 | 1 | 2 | 5 | 0 | 0 | 94.10 | | | | | | | | |
| 31 | Melody L | 10/2/2011 | DOH | | ., | | <u>'</u> | | - | | _ | 04.10 | 0.00 | 0.03 | | | | | | |
| 31 | Melody L | 6/12/2012 | epi | 18 | 23 | 1 | 1 | 1 | 5 | 0 | 0 | 5.60 | 0.70 | | <0.417 | | 1.00 | 0.32 | 1 | |
| 31 | Melody L | 6/25/2012 | epi | 19 | 26 | 2 | 1 | 2 | 5 | 0 | 0 | 6.60 | | | <0.428 | | 1.75 | 1.06 | i | |
| 31 | Melody L | 7/17/2012 | ері | 24 | 28 | 3 | 1 | 3 | 18 | | 47 | 8.30 | | | <0.328 | | 3.50 | 0.90 | F | |
| 31 | Melody L | 8/6/2012 | epi | 23 | 27 | 3 | 1 | 3 | 148 | 4 | 4 | 9.00 | | | < 0.330 | | 11.34 | 6.84 | F | |
| 31 | Melody L | 8/20/2012 | ері | 20 | 24 | 3 | 1 | 4 | 148 | 467 | | | | | <0.551 | | 7.63 | 3.78 | F | |
| 31 | Melody L | 9/3/2012 | ері | 19 | 25 | 3 | 1 | 4 | 14 | 46 | 46 | 15.50 | | | <0.725 | | 7.43 | 1.20 | F | |
| 31 | Melody L | 9/16/2012 | ері | 19 | 22 | 3 | 1 | 4 | 145 | 4 | 4 | 16.90 | | | <3.299 | | 4.24 | 1.63 | F | |
| 31 | Melody L | 10/8/2012 | epi | 8 | 15 | 3 | 1 | 4 | 15 | 4 | 4 | 25.00 | | | <3.205 | | 7.07 | 4.67 | F | |
| 31 | Melody L | 6/15/2013 | ері | 21 | 21 | 2 | 1 | 2 | 5 | 0 | 0 | | | | <0.440 | | 7.07 | 7.07 | <u> </u> | 1 |
| 31 | Melody L | 6/29/2013 | ері | 21 | 25 | 2 | 1 | 3 | 5 | 0 | 0 | 6.80 | | | <0.650 | | 2.70 | 0.00 | i | i |
| 31 | Melody L | 7/15/2013 | ері | 31 | 28 | 2 | 2 | 2 | 0 | 0 | 0 | 6.20 | | | <0.910 | | 4.00 | 0.10 | i | i |
| 31 | Melody L | 7/29/2013 | epi | 22 | 25 | 2 | 1 | 2 | 0 | 0 | 0 | 18.30 | | | <0.380 | | 6.50 | 2.10 | i | i |
| 31 | Melody L | 8/12/2013 | epi | 25 | 24 | 3 | 1 | 3 | 1 | 0 | 0 | 24.00 | | | <0.380 | | 14.00 | 2.20 | i | i |
| 31 | Melody L | 8/25/2013 | epi | 25 | 24 | 3 | 1 | 3 | 14 | 0 | 0 | | | | < 0.570 | | 16.20 | | i | i |
| 31 | Melody L | 9/15/2013 | epi | 15 | 20 | 3 | 1 | 3 | 14 | 6 | 0 | | | | <0.100 | | 20.50 | | F | fi |
| 31 | Melody L | | bloom | | | | • | _ | | Ŭ | Ů | 11.00 | 20.00 | | <38.260 | | 2165 | | | a |
| 31 | Melody L | | bloom | | | | | | | | | <u> </u> | | | <21.210 | | 211.00 | | | c |
| 31 | Melody L | 9/27/2013 | epi | 18 | 19 | 3 | 1 | 4 | 134 | 46 | 46 | 10.20 | 30 80 | | <0.050 | | 27.20 | | D | D |
| 31 | Melody L | 6/3/2014 | ері | 25 | 24 | 1 | 1 | 1 | 0 | 0 | 0 | 0.50 | | | <0.030 | <0.001 | 0.82 | 0.00 | 1 | ٦ |
| 31 | Melody L | 6/17/2014 | epi | 21 | 24 | 2 | 1 | 2 | 0 | 0 | 0 | 2.90 | | < 0.53 | | <0.001 | | 0.00 | i | |
| 31 | Melody L | 7/7/2014 | ері | 23 | 25 | 2 | 1 | 3 | 46 | 7 | 0 | 14.40 | | | | < 0.002 | 4.71 | 2.08 | i | |
| 31 | Melody L | 7/22/2014 | epi | 28 | 27 | 3 | 1 | 3 | 1 | 6 | 6 | 9.80 | | <0.39 | | <0.001 | | 0.44 | i | С |
| 31 | Melody L | 7/22/2014 | ері | | | | | Ť | | Ť | Ť | 0.00 | 1.00 | | | <0.002 | | 5.19 | | |
| 31 | Melody L | 8/4/2014 | ері | 24 | 26 | 3 | 2 | 3 | 1 | 0 | 0 | 9.60 | 1.60 | < 0.73 | | < 0.002 | | 0.41 | | 1 |
| 31 | Melody L | 8/18/2014 | epi | 19 | 22 | 2 | 1 | 2 | 0 | 6 | 0 | 7.40 | | | | <0.002 | | 0.18 | i | i |
| 31 | Melody L | 9/1/2014 | epi | 24 | 23 | 3 | 2 | 3 | 0 | 0 | 0 | 10.30 | | < 0.64 | | < 0.002 | | 0.15 | i | i |
| 31 | Melody L | 9/23/2014 | epi | 10 | 17 | 3 | 1 | 3 | 1 | 0 | 0 | 13.30 | | < 0.49 | | < 0.002 | 7.68 | 0.53 | i | i |
| 31 | Melody L | 06/17/2009 | hypo | | 20 | | | Ť | | Ť | Ť | . 5.50 | 0 | -3.40 | -0.12 | 10.001 | | 2.00 | | • |
| 31 | Melody L | 06/29/2009 | hypo | | 22 | | | | | | | 1 | | | | | | | | |
| 31 | Melody L | 07/21/2009 | hypo | | 22 | | | | | | | <u> </u> | | | | | | | | |
| 31 | Melody L | 08/11/2009 | hypo | | 21 | | | | | | | 1 | | | | | | | | |
| 31 | Melody L | 08/21/2009 | hypo | | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 09/11/2009 | hypo | | 19 | | | | | | | † | | | | | | | | |
| 31 | Melody L | 09/24/2009 | hypo | | 19 | | | | | | | 1 | | | | | | | | |
| 31 | Melody L | 10/19/2009 | hypo | | 9 | | | | | | | <u> </u> | | | | | | | | |
| <u> </u> | | . 5, . 5, 2000 | , 50 | | | | ! | · | | | | 1 | 1 | | | 1 | | | | |

| | | | | | | | | | | | | | AQ- | MC- | | | FP- | FP- | | Shore |
|------|----------|-----------|------|------|------|----|----|----|----|----|----|-------|------|-----|-------|-----|-----|-----|------|-------|
| LNum | PName | Date | Site | TAir | TH20 | QA | QB | QC | QD | QF | QG | AQ-PC | Chla | LR | Ana-a | Cyl | Chl | BG | form | HAB |
| 31 | Melody L | 6/13/2011 | hypo | | 20 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/28/2011 | hypo | | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/19/2011 | hypo | | 26 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/6/2011 | hypo | | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/29/2011 | hypo | | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/13/2011 | hypo | | 20 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/27/2011 | hypo | | 20 | | | | | | | | | | | | | | | |
| 31 | Melody L | 10/2/2011 | hypo | | 17 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/12/2012 | hypo | | 20 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/25/2012 | hypo | | 21 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/17/2012 | hypo | | 28 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/6/2012 | hypo | | 27 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/20/2012 | hypo | | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/3/2012 | hypo | | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/16/2012 | hypo | | 21 | | | | | | | | | | | | | | | |
| 31 | Melody L | 10/8/2012 | hypo | | 15 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/15/2013 | hypo | | 21 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/29/2013 | hypo | | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/15/2013 | hypo | | 27 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/29/2013 | hypo | | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/12/2013 | hypo | | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/25/2013 | hypo | | 24 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/15/2013 | hypo | | 20 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/27/2013 | hypo | | 17 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/3/2014 | hypo | | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 6/17/2014 | hypo | | 23 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/7/2014 | hypo | | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 7/22/2014 | hypo | | 26 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/4/2014 | hypo | | 25 | | | | | | | | | | | | | | | |
| 31 | Melody L | 8/18/2014 | hypo | | 21 | | | _ | | | | | | | | | | | | |
| 31 | Melody L | 9/1/2014 | hypo | | 22 | | | | | | | | | | | | | | | |
| 31 | Melody L | 9/23/2014 | hypo | | 17 | | | | | | | | | | | | | | | |

Legend Information

| Indicator | Description | Detection Limit | Standard (S) / Criteria (C) | | |
|------------------------|---|--------------------|------------------------------------|--|--|
| General Inform | nation | _ | <u> </u> | | |
| Lnum | lake number (unique to CSLAP) | | | | |
| Lname | name of lake (as it appears in the Gazetteer of NYS Lakes) | | | | |
| Date | sampling date | | | | |
| Field Paramete | ers | | | | |
| Zbot | lake depth at sampling point, meters (m) | | | | |
| Zsd | Secchi disk transparency or clarity | 0.1m | 1.2m (C) | | |
| Zsamp | water sample depth (m) (epi = epilimnion or surface; bot = bottom) | 0.1m | none | | |
| Tair | air temperature (C) | -10C | none | | |
| TH20 | water temperature (C) | -10C | none | | |
| Laboratory Par | rameters | <u> </u> | | | |
| Tot.P | total phosphorus (mg/l) | 0.003 mg/l | 0.020 mg/l (C) | | |
| NOx | nitrate + nitrite (mg/l) | 0.01 mg/l | 10 mg/l NO3 (S), 2 mg/l NO2 (S) | | |
| NH4 | total ammonia (mg/l) | 0.01 mg/l | 2 mg/l NH4 (S) | | |
| TN | total nitrogen (mg/l) | 0.01 mg/l | none | | |
| TN/TP | nitrogen to phosphorus (molar) ratio, = (TKN + NOx)*2.2/TP | 3, | none | | |
| TCOLOR | true (filtered) color (ptu, platinum color units) | 1 ptu | none | | |
| pH | powers of hydrogen (S.U., standard pH units) | 0.1 S.U. | 6.5, 8.5 S.U. (S) | | |
| Cond25 | specific conductance, corrected to 25C (umho/cm) | 1 umho/cm | none | | |
| Са | calcium (mg/l) | 1 mg/l | none | | |
| Chl.a | chlorophyll a (ug/l) | 0.01 ug/l | none | | |
| Fe | iron (mg/l) | 0.1 mg/1 | 1.0 mg/l (S) | | |
| Mn | manganese (mg/l) | 0.01 mg/l | 0.3 mg/l (S) | | |
| As | arsenic (ug/I) | 1 ug/l | 10 ug/l (S) | | |
| AQ-PC | Phycocyanin (aquaflor) (unitless) | 1 unit | none | | |
| AQ-Chl | Chlorophyll a (aquaflor) (ug/l) | 1 ug/l | none | | |
| MC-LR | Microcystis-LR (ug/I) | | | | |
| Ana | Anatoxin-a (ug/l) | variable | none | | |
| Cyl | Cylindrospermposin (ug/l) | 0.1 ug/l | none | | |
| FP-Chl, FP-BG | Fluoroprobe total chlorophyll, fluoroprobe blue-green chlorophyll (ug/l) | 0.1 ug/l | none | | |
| Lake Assessme | nt | | | | |
| QA | water quality assessment; 1 = crystal clear, 2 = not quite crystal clear, 3 = definite algae greenness, 4 = high algae levels, 5 = severely high algae levels | | | | |
| QB | aquatic plant assessment; 1 = no plants visible, 2 = plants below surface, 3 = plants at surface, 4 = plants dense at surface, 5 = surface plant coverage | | | | |
| QC | recreational assessment; 1 = could not be nicer, 2 = excellent, 3 = slightly impaired, 4 = substantially impaired, 5 = lake not usable | | | | |
| QD | reasons for recreational assessment; 1 = poor water clarity, 2 = excessive weeds, 3 = too much algae, 4 = lake looks bad, 5 = poor weather, 6 = litter/surface debris, 7 = too many lake users, 8 = other | | | | |
| QF, QG | Health and safety issues today (QF) and past week (QG); 0 = none, 1 = taste/odor, 2 = GI illness humans/animals, 3 = swimmers itch, 4 = algae blooms, 5 = dead fish, 6 = unusual animals, 7 = other | | | | |
| HAB form, Shore HAB | HAB evaluation; A = spilled paint, B = pea soup, C = streaks, D = green dots, E = bubbling scum, F = green/brown tint, G = duckweed, H = other, I = no bloom | | | | |

Appendix B: **Priority Waterbody Listing for Melody Lake**

Ellis/Melody Lake (0602-0053)

MinorImpacts

Revised: 07/06/2009

Resolution Potential: Medium

Waterbody Location Information

Water Index No: SR-44-14-27-23-P39 Drain Basin: Susquehanna River

Chenango River

Hydro Unit Code: 02050102/070 Str Class: C

7/Cortland Co. (12)

Reg/County: Waterbody Type: Lake (Eutrophic) Waterbody Size: 40.8 Acres Quad Map: WILLET (L-17-1)

Seg Description: entire lake

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted **Problem Documentation** Severity

Recreation Stressed Suspected

Type of Pollutant(s)

ALGAL/WEED GROWTH (algal blooms, vegetation), Nutrients (phosphorus) Known:

Suspected: Possible:

Source(s) of Pollutant(s)

Known:

Suspected: AGRICULTURE

Possible:

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))

Verification Status: 3 (Cause Identified, Source Unknown)

Lead Agency/Office: ext/WQCC n/a

TMDL/303d Status:

Further Details

Overview

Recreational uses (swimming, fishing, boating) in Ellis Pond/Melody Lake are known to experience impacts from excessive algal and weed growth. Elevated nutrient levels may contribute to the plant growth. Sampling from 1980s and 1990s and continuing through the present indicate a trend toward improving water quality. In more recent years impacts have been primarily related to weeds.

Water Quality Sampling

Ellis Pond/Melody Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) from 1987 through 1991 and from 1997 and continuing through 2006. An Interpretive Summary report of the findings of this sampling was published in 2007. These data indicate that the lake continues to be best characterized as mesotrophic, or moderately productive. Phosphorus levels in the lake occasionally exceed the state guidance values indicating impacted/stressed recreational uses but exceedences appear to be less frequent. Corresponding transparency measurements only rarely fail to exceed the recommended minimum for swimming beaches. Measurements of pH fall within the state water quality range of 6.5 to 8.5. The lake water is weakly colored, but color does not limit water transparency. (DEC/DOW, BWAM/CSLAP, March 2007)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be increasingly favorable. The recreational suitability of the lake during more recent sampling is described most frequently as "excellent." The lake itself is most often described as "not quite crystal clear" or as having "definite algal greenness," an assessment that is consistent measured water quality characteristics. Assessments have noted that aquatic plants do not grow to the lake surface in more recent sampling years. Aquatic plants are dominated by a mix of native species and non-native Eurasian milfoil and have been cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, March 2007)

Lake Uses

This lake waterbody is designated class C, suitable for use as general recreation and aquatic life support, but not as a public water supply or public bathing beach. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

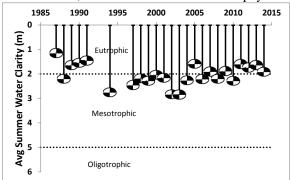
Segment Description

This segment includes the total area of the lake.

Appendix C- Long Term Trends: Melody Lake

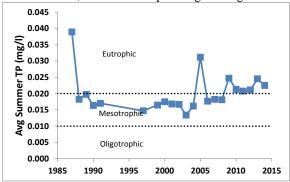
Long Term Trends: Water Clarity

- Slight decrease mid-90s to present
- Most readings typical of *mesoeutrophic* lakes, consistent with TP and chlorophyll *a*



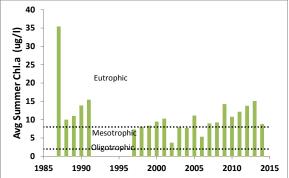
Long Term Trends: Phosphorus

- TP high since mid-1990s
- Most readings typical of *mesoeutrophic* lakes, lower than expected given algae



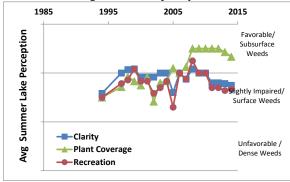
Long Term Trends: Chlorophyll a

- Algae seems to rise in 4yr increments
- Most readings typical of *mesoeutrophic* lakes, recently higher than expected for TP



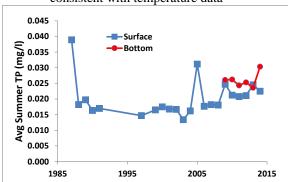
Long Term Trends: Lake Perception

- Significantly less plant growth due to carp
- Recreational perception more closely linked to changes in water quality than weeds



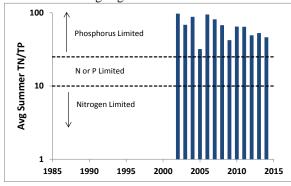
Long Term Trends: Bottom Phosphorus

- Deepwater TP similar to surface TP
- Indicates weak thermal stratification, consistent with temperature data



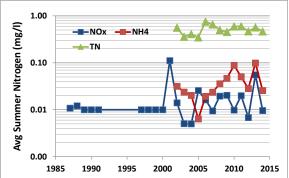
Long Term Trends: N:P Ratio

- Some decrease since mid-2000s
- Most readings (still) indicate phosphorus limits algae growth



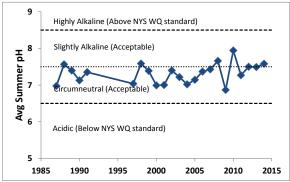
Long Term Trends: Nitrogen

- Increasing ammonia levels?
- Occasionally elevated total nitrogen readings consistent with high algae levels



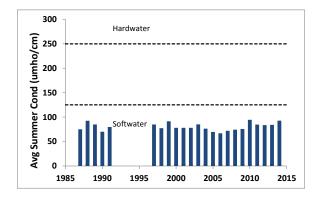
Long Term Trends: pH

- Slight rise since early 2000s
- Most readings typical of *slightly alkaline* to *circumneutral* lakes



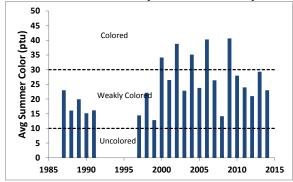
Long Term Trends: Conductivity

- No trends apparent
- Most readings typical of *softwater* lakes



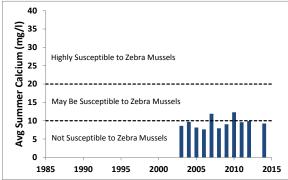
Long Term Trends: Color

- No clear trends though slight rise after 2002
- Most readings typical of weakly colored to colored lakes, may affect water clarity



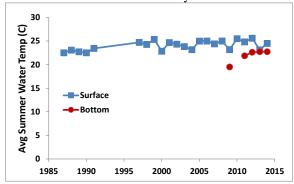
Long Term Trends: Calcium

- No trends apparent
- Data indicates little to no susceptibility to zebra mussels, not found at the lake



Long Term Trends: Water Temperature

- Surface and deep temperatures increasing
- Only slightly lower deepwater temperatures indicate weak thermal layers



Appendix D: Algae Testing Results from SUNY ESF Study

Most algae are harmless, naturally present, and an important part of the food web. However excessive algae growth can cause health, recreational, and aesthetic problems. Some algae can produce toxins that can be harmful to people and animals. High quantities of these algae are called harmful algal blooms (HABs). CSLAP lakes have been sampled for a variety of HAB indicators since 2008. This was completed on selected lakes as part of a NYS DOH study from 2008-2010. In 2011, enhanced sampling on all CSLAP lakes was initiated through an EPA-funded project that has continued through the current sampling season. This study has evaluated a number of HAB indicators as follows:

- Algae types blue green, green, diatoms, and "other"
- Algae densities
- Microscopic analysis of bloom samples
- Algal toxin analysis

Some of these results are reported in other portions of these reports. This appendix the seasonal change in blue green algae, other algae types, and the primary algal toxin (microcystin-LR, a liver toxin). Analysis was completed on open water samples and, for some lakes, shoreline samples that were collected when visual evidence of blooms were apparent. Results are compared to the DEC criteria of 30 ug/l blue green chlorophyll a and 20 ug/l microcystin-LR (based on the World Health Organization (WHO) threshold for unsafe swimming conditions) and the WHO provisional criteria for long-term protection of treated water supplies (= 1 ug/l microcystin-LR). The data for algae types are drawn from a high end fluorometer used by SUNY ESF. While these results are useful for timely approximation of lake conditions, they are not as accurate as the total chlorophyll results measured as a regular part of CSLAP since 1986 in all open water samples. Therefore these results are used judiciously in the assessment of sampled waterbodies.

Two separate samples are evaluated. A sample is taken at the CSLAP sample point at the deepest point of the lake at every sample session. In addition, shoreline samples can be taken when a bloom is visible. It should be noted that shoreline conditions can vary significantly over time and from one location to another. The shoreline bloom sampling results summarized below are not collected as routinely as open water samples, and therefore represent snapshots in time. It is assumed that sampling results showing high blue green algae and/or toxin levels indicate that algae blooms may be common and/or widespread on these lakes. However, the absence of elevated blue green algae and toxin levels does not assure the lack of shoreline blooms on these lakes. Elevated open water readings may indicate a higher likelihood of shoreline blooms, but in some lakes, these shoreline blooms have not been (well) documented.

The results from these samples are summarized within the CSLAP report for the lake.

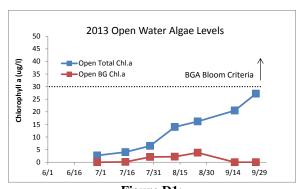


Figure D1: 2013 Open Water Total and BGA Chl.a



Figure D3: 2013 Shoreline Total and BGA Chl.a

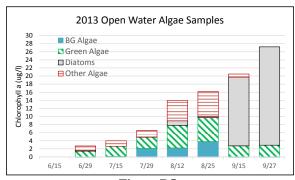


Figure D5: 2013 Open Water Algae Types

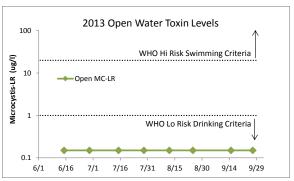


Figure D2: 2013 Open Water Microcystin-LR

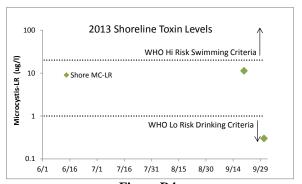


Figure D4: 2013 Shoreline Microcystin-LR

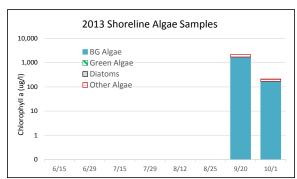


Figure D6: 2013 Shoreline Algae Types

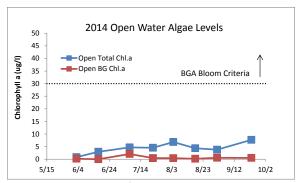


Figure D7: 2014 Open Water Total and BGA Chl.a

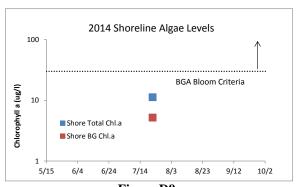


Figure D9: 2014 Shoreline Total and BGA Chl.a

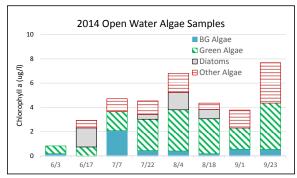


Figure D11: 2014 Open Water Algae Types

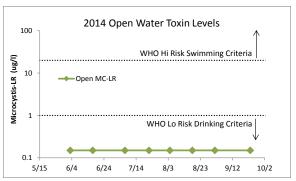


Figure D8: 2014 Open Water Microcystin-LR

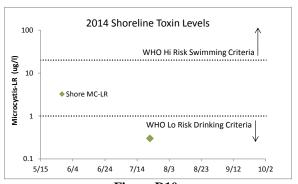


Figure D10: 2014 Shoreline Microcystin-LR

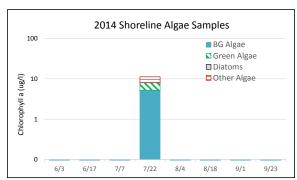


Figure D12: 2014 Shoreline Algae Types

Appendix E: AIS Species in Cortland County

The table below shows the invasive aquatic plants and animals that have been documented in Cortland County, as cited in either the iMapInvasives database (http://www.imapinvasives.org/) or in the NYSDEC Division of Water database. These databases may include some, but not all, non-native plants or animals that have not been identified as "Prohibited and Regulated Invasive Species" in New York state regulations (6 NYCRR Part 575; http://www.dec.ny.gov/docs/lands_forests_pdf/islist.pdf).

This list is not complete, but instead represents only those species that have been reported and verified within the county. If any additional aquatic invasive species (AIS) are known or suspected in these or other waterbodies in the county, this information should be reported through iMap invasives or by contacting NYSDEC at downfo@dec.ny.gov.

| Aquatic Invasive Species – Cortland County | | | | | | | |
|--|---------|-----------------------|-----------------------|--|--|--|--|
| Waterbody | Kingdom | Common name | Scientific name | | | | |
| Cincinnatus Lake | Plant | Water chestnut | Trapa natans | | | | |
| Ellis Lake | Plant | Eurasian watermilfoil | Myriophyllum spicatum | | | | |
| Goodale Lake | Plant | Eurasian watermilfoil | Myriophyllum spicatum | | | | |
| Melody Lake | Plant | Eurasian watermilfoil | Myriophyllum spicatum | | | | |
| Melody Lake | Plant | Starry stonewort | Nitellopsis obtusa | | | | |
| Melody Lake | Animal | Chinese mystery snail | Bellamya chinensi | | | | |
| Otselic River near Landers Corners | Animal | Asian clam | Corbicula fluminea | | | | |
| Skaneateles Lake | Plant | Eurasian watermilfoil | Myriophyllum spicatum | | | | |
| Skaneateles Lake | Plant | Curly leafed pondweed | Potamogeton crispus | | | | |
| Solon Pond | Plant | Eurasian watermilfoil | Myriophyllum spicatum | | | | |
| Tully Lake | Plant | Eurasian watermilfoil | Myriophyllum spicatum | | | | |
| Tully Lake | Plant | Starry stonewort | Nitellopsis obtusa | | | | |
| Tully Lake | Plant | Curly leafed pondweed | Potamogeton crispus | | | | |
| Upper Little York Lake | Animal | Zebra mussel | Dreissena polymorpha | | | | |
| Upper Little York Lake | Plant | Eurasian watermilfoil | Myriophyllum spicatum | | | | |
| Upper Little York Lake | Plant | Starry stonewort | Nitellopsis obtusa | | | | |
| Upper Little York Lake | Plant | Curly leafed pondweed | Potamogeton crispus | | | | |
| West Branch Tioughnioga River | Animal | Zebra mussel | Dreissena polymorpha | | | | |

Appendix F: Watershed and Land Use Map for Melody Lake

This watershed and land use map was developed using USGS StreamStats and ESRI ArcGIS using the 2006 land use satellite imagery. The actual watershed map and present land uses within this watershed may be slightly different due to the age of the underlying data and some limits to the use of these tools in some geographic regions and under varying flow conditions. However, these maps are intended to show the approximate extent of the lake drainage basin and the major land uses found within the boundaries of the basin.