EXHIBIT M

O&M MANUAL FOR BIOFOR BIOSTYR AND DENSADEG

Refer to Phase I Protocol Biofor and Biostyr O&M Manual

DENSADEG® PILOT PLANT

OPERATION INSTRUCTIONS

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I. GENERAL

The DensaDeg® treating plant is a high-density solids-contact clarification unit which incorporates the processes of flocculation, liquid-solids separation, sludge recycle, and thickening.

II. Equipment and Operation Description:

An understanding of the specialized zones and the functions of various components are essential to the understanding of the operation of the treating plant.

A. DensaDeg® Clarifier:

1. Rapid Mix Tank

The rapid mix tank is the zone of coagulant addition and high speed mixing. Raw water is pumped to the top of the tank where the coagulant is introduced. A variable speed mixer increases the particle energy as water flows down through the tank and to the reactor tank.

2. Reactor Tank

The reactor tank is the zone where flocculation occurs. The reactor tank consists of a round tank with a reactor tube and turbine mixer. Influent and recycled sludge from the thickener zone of the DensaDeg® combine before entering the unit. This mixture flows through the influent pipe into the bottom of the reactor tube. Polymer is introduced into the mixture within the reactor tube. The turbine mixes the liquid with previously formed precipitates and pumps the liquid upward, inducing a cardiac profile in the reactor tank of the DensaDeg®.

Continued contact promotes efficient chemical usage and the growth of a denser floc. Between the reactor tank and the clarifier tank is a baffled transitional zone. As the slurry is displaced by incoming liquid, a portion of the slurry moves upward between the reactor and clarifier tanks.

This slurry passes over a submerged weir and into the clarifier/thickener vessel. It is essential in this zone that minimum uplift velocities are maintained to prevent solids from depositing on the floor of the reactor tank.

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3. Clarifier Thickener Vessel

Presettling / Thickener Zone

In this zone, the flocculated solids (sludge) are settled and concentrated for return to the primary reaction zone and for waste sludge withdrawal. A floor scraper keeps the sludge in a fluid state and moves it to a central draw-off sump.

Clarification Zone

In this zone, clarified water rises up through the lamellar settling tubes and into the effluent launder for discharge of the clarified effluent downstream to the Packaged Gravity Filter.

B. DensaDeg® Drive:

A reaction tank turbine drive and clarifier floor scraper drive are supplied for rotating the internal machinery.

The reactor turbine drive is a variable speed drive. The actual final operating speed will be determined during process optimization, at startup. The clarifier/scraper drive is a variable speed unit comprised of several speed reducers.

C. Sludge Recirculation and Sludge Discharge to Waste:

The sludge recirculation pump is used to control external sludge flow. Its main purpose is to recycle solids from the thickener unit back to the primary mixing and reaction zone.

The concentration and quantity of sludge recycled to the reactor tube must be adjusted to optimize treatment. Adjusting the quantity may be accomplished by adjusting the flow through the recycling pump. It is important to adjust the recycling rate appropriately to accommodate any fluctuation in the influent flow rate. Adjusting concentration can be accomplished by changing the height of the sludge recirculation draw-off funnel. (During start-up sludge can be recycled from the sludge-blowdown area.)

The waste sludge will be removed as required to maintain the desired sludge inventory and density. Blowdown can be controlled by either a timer (via input based on the influent rate) or manually. The length of blowdown is adjustable via a timer in the PLC.

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D. Sample Connections:

A vertical row of sample connections on the side of the clarifier tank provides samples from various levels in the sludge settling zone for determination of the sludge concentration at these levels.
They are also used to determine the elevation of the top of the sludge blanket, and thereby guide the operator in the need to adjust sludge blowdown.

III. Start-up:

A. Equipment Checks:

1. Inspect the DensaDeg® tank and mechanism thoroughly, removing all debris that will interfere with sludge recirculation, sludge blowdown or mixer rotation.
2. Ensure that all pumps, drives, reducers, etc. are properly lubricated.
3. Ensure that the raw water and recycle sludge pumps are operating correctly.
4. Ensure proper rotation of the reactor turbine and scraper drive.
5. Ensure that the scraper drive is free to rotate and is not obstructed in any way.
6. Ensure that all chemical feed systems are operational.
7. Ensure that all piping has been blown out and cleared of debris.

B. Initial Operation:

Prepare chemical feeding systems by filling with chemicals and calibrating feed rates. Start the chemical feed units with the raw water flow. Adjust the chemical feed pumps for the proper feed dosages. Start the reaction turbine as soon as the reaction tank is filled. The sludge scraper drive is started when the settling zone is filled.

Start the recycle flow through the sludge recirculation pump as soon as the DensaDeg® is full of water.

The period of initial operation is characterized by a gradual build-up in the concentration of solids and in the density of the slurry. During this period, it is advisable to operate at approximately 50% of the designed rate of flow for greater retention of solids while the particle size is small. Do not blow down sludge from the unit until it has developed a suitable sludge inventory. However, as soon as a reasonable sludge inventory is obtained,

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automatic or periodic sludge blowdown should commence at the rate required to maintain the desired sludge density and inventory.

The time required to establish a normal sludge inventory varies depending upon the suspended solids in the raw water, the degree of treatment desired, and the type of coagulant agents used. The time may be as short as 6 to 8 hours or as long as several days, especially if operation is intermittent.

IV. Normal Operation:

A. Shutdown:

If shutdown of the unit is necessary, stop sludge recycling 5 to 30 minutes prior to shutdown.

For a **short-term shutdown**, allow the mixer and scraper drives to continue to operate.

For **prolonged shutdown** (1 or more days), stop the turbine.
Remove all sludge from the tank. Stop the scraper after the sludge has been removed. The scraper must operate as long as any sludge remains in the tank. If possible, keep the DensaDeg® Clarifier flooded to protect the lamellar tubes from direct sunlight. Flush all sludge lines.

B. Start-Up Following a Shutdown:

To restart the plant after a normal shutdown, start up the DensaDeg® drive, the sludge recirculation pump, all automatic controls, and chemical and raw water feeds. Verify that each system is functioning normally.

C. Control of Operation:

It is important that sludge levels and concentrations are controlled in the various zones of the DensaDeg® plant. Refer to the following sections on Reactor Slurry Concentration, Sludge Inventory Control, and Effluent Turbidity for a detailed description of operational adjustments. This data should be recorded at least once every 8 hours of operation. Sample data, for record, should be taken when the operation is stabilized and used to detect abnormal variations on a day-to-day basis.

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D. Coagulant Dosage:

The effectiveness of various coagulants or coagulant aids can be determined by jar testing. Note: Experience has shown that both coagulant and coagulant aid may be reduced below levels determined in initial jar testing. Constant monitoring can not be overstressed.

V. Reactor Sludge Concentration:

A modest concentration of solids in the reactor is necessary to promote and complete the desired floc formations. The amount of solids that is required for best treatment should remain uniform once process equilibrium has been established.

The concentration of reactor solids must be monitored to ensure proper operation. The concentration of reactor solids should be between 0.050.2% by weight.

A quick method for determining proper reactor solids concentration is by a 10 minute settling test. This method should be used for quick on- site analysis. Gravimetric analysis will yield more precise results.

1. Take a representative sample from the reactor tank in a 100 ml graduated cylinder.
2. Allow sample to settle for 10 minutes.
3. Observe the settled sludge volume. If, for example, the reading is 15 ml, then the sample is 15% solids by volume.

The range of sludge concentrations that produce the best results for your installation are dependent upon local conditions, primarily the characteristics of the water to be treated and the treatment results desired as well as the nature and quality of coagulation chemicals. They cannot be precisely predicted. Only on-site experimental adjustments during early system operation can develop the data best suited for continuous operation guides.

A significant change in the volume or density of the solids indicates an abnormal condition that must be corrected. If the solids concentration decreases while there is an increase in the depth of the sludge zone, the treatment and coagulation may be incorrect. Perform tests and correct the treatment if necessary .

VI. Sludge Inventory Control:

The depth of the sludge bed is determined by taking samples from the taps on the tank wall. Samples drawn from highest tap should be essentially free of sludge at all times. If sludge appears at this sample tap, check the chemical feeds and correct if necessary . If

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the chemical flows are correct and sludge persists at the highest tap, the unit contains too much sludge. Increase the sludge blowdown slightly.

The factors which can cause a change in the sludge blanket depth are:

1. Change in the frequency and/or duration of sludge discharge.
2. Change in the characteristics or temperature of raw water .
3. Change in the chemical treatment.
4. Change in reactor zone sludge density .
5. Change in raw water flow rate.

Flocculated solids in excess of the amount required for circulation to the reactor are continuously removed from the unit. The amount of solids discharged must equal the amount of solids formed during treatment. If the amount discharged is less than the amount produced, the sludge depth will increase and the solids may carryover in the effluent, or the sludge may compact, de-flocculate, and overload the floor scraper system. If the amount discharged is greater than the amount produced, there will not be adequate sludge for circulation to the primary reaction zone. The depth will decrease and the density may decrease.

It is helpful to know the instantaneous flow rate of sludge blowdown to assist in selecting blowdown timer settings. Time the rate of drawdown in the tank while the unit is idle or catch a timed volume during blowdown and calculate the flow in gallons per second.

VII. Effluent Turbidity:

Suspended solids in the effluent liquid can be monitored by conventional filtration and Gravimetric analysis at least once every 8 hours.

Excessive effluent turbidity can be caused by:

1. Excessive sludge depth
2. Excessive sludge recycle
3. Insufficient sludge discharge
4. Incomplete coagulation or chemical treatment
5. Chemical feed failure
6. Sudden swings or changes in raw water flow

Check all phases of operation thoroughly when this condition exists.

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VIII. Maintenance:

Lubricate all motors, gear reducers, and accessory equipment as directed in the accompanying instructions. Inspect the sludge valve, timers, and proportioning devices periodically to see that they are operating properly. Lubricate them and clean them as directed in the accompanying instructions. IDI recommends that the head of operations prepare maintenance summary sheets, specifying specific schedules with specific actions.

Suggested DensaDeg® Operating Record

	Date								
	Chemical Tests								
Raw Water	Turbidity								
	Hardness								
	P Alk								
	M Alk								
	A								
Effluent	Turbidity								
	Hardness								
	P Alk								
	M Alk								
	A								

Chemical Treatment

Soda Ash								
Lime								
Sodium Hypochlorite								
Polymer								
Ferric Chloride								
Sulfuric Acid								
Primary Zone Sludge								
Sludge recycle								
Sludge discharge								
Sludge Blowoff								
Raw water flow								

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I. TROUBLESHOOTING GUIDE

The most common operational problems and remedies are shown in the following tables. Depending on the facility in question or the type of treatment involved, the remedial actions recommended may be modified or supplemented.

PROBLEM	PROBABLE CAUSE	ACTION
	REACTOR	
Percentage of sludge in reactor too low.	Recycling Flow Rate too low.	Check sludge recycling pumps for proper setting. Increase flow if necessary.
	Recycling pump stopped or not set correctly.	Check setting. Adjust as necessary. Note that flow increase does not systematically lead to a rise in % of sludge. Maximum of recycle mass flow often occurs at fairly low levels.
	Recycling pump clogged.	Unclog with pressurized water.
	Mixer stopped or not functioning properly.	Check electrical interlock. Check variable frequency drive - refer to vendor literature section of this manual. Sludge deposits can form during shutdown, blocking the mixer. Decrease the influent flow rate and lower an air or water injection rod into tank to suspend the settled solids. If this in ineffective, stop the influent flow and partially drai the tank to remove excess solids. Check coupling bolts. If loose, tighten. Check gearbox. Refer to vendor literature.

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PROBLEM	PROBABLE CAUSE	ACTION
	REACTOR	
Percentage of sludge in reactor too low. (con't)	Lack of coagulant.	Ensure correct amount of coagulant is being fed. Refer to vendor literature section of this manual.
	Sludge level down.	See following Clarifier troubleshooting section.
	Not enough polymer. Treated water cloudy or floc rising to surface.	Check quality of polymer, date of preparation, concentration. Check polymer feeder for proper operation. Refer to the vendor literature section of this manual. Check injected and diluted concentration.
	Too much polymer. Sludge level drops, deposits in reactor.	Check polymer dose and flow rate. (This is more probable at low flow rates.)
Percentage of reactor sludge very high.	Recycling flow rate too high.	Check sludge recycling pumps for proper setting. Reduce flow if necessary.
NOTE: when the flow is less than the normal flow, the sludge percentage will be higher, since the plant operates on a constant sludge mass flow.	Sludge blanket rises.	Check sludge level in settling tank. Check setting of the sludge removal pumps. Check polymer feed. If necessary, lower sludge level. Increase sludge removals. Utilize lower level sludge drawoff valves.

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PROBLEM	PROBABLE CAUSE	ACTION
	CLARIFIER	
Sludge level too high.	Insufficient sludge removal.	Increase sludge removal rate.
	Polymer or dilution deficiency (sludge blanket expansion).	Check and adjust polymer feed. Refer to 2.7 in this section.
	Scraper stopped.	Check and adjust.
	Massive increase in raw water load.	Check raw water flow rate. If necessary, rapidly lower sludge level by forced removal in manual or auto modes.
Sludge level low.	Sludge level too low.	Check actual sludge level (take samples).
	Excessive sludge removal.	Check pumps, reduce flow rate if necessary
	Too much polymer.	Check and adjust.
	Scraper stops.	Check and restart.
	Recycling stopped or defective.	Check and restart.
	Drastic Drop in Raw Water Load.	Check. Modify settings.
	SCRAPER	
Scraper overtorque - alarm condition.	Sludge concentration very high.	Increase rate of sludge removal. Check chemical dosing rates. Make sure they are not too high. Check concentration of removed sludge.
	Removal intervals too long.	Remove sludge by manual operation. Adjust sludge removal intervals.

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PROBLEM	PROBABLE CAUSE	ACTION
	SCRAPER	
Scraper overtorque - alarm condition.	Too much sludge in settling tank	Refer to 2.1 in this section
	Sludge residence time too high.	Check sludge recycling pumps for proper setting. Decrease flow if necessary.
	Bottom sludge concentration too high.	Sludge on floor more concentrated than for removal. Increase scraper speed.
Scraper overtorque - shutdown condition.	Scraper overtorque alarm troubleshooting ineffective.	Review scraper overtorque alarm troubleshooting.
	Sludge removal too infrequent.	Adjust sludge removal intervals.
	Sludge concentration abnormally high.	Check sludge recycling pumps for proper setting. Decrease flow if necessary.
	Scraper blocked by foreign object.	Drain tank and fix. See 2.1 in this section.
Sludge concentration under modules is high.	Sludge level too high.	Increase frequency and duration of sludge removals.
	Sludge % in reactor too high.	Check, lower if necessary. See 2.5.
	Lack of coagulant.	Check coagulant feed rate. Adjust as required.
Treated water cloudy.	Reactor sludge percentage insufficient.	Refer to 1.1 in this section.
	Lack of coagulant.	Check and adjust.
	Lack of polymer.	Check and adjust.
	pH too high or too low.	Check and adjust.

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PROBLEM	PROBABLE CAUSE	ACTION
	SCRAPER	
Treated water cloudy.	Sludge fermentation - residence time too long.	Forced sludge removal. Replenish sludge supply. Use lower sludge drawoff valve. Increase sludge removal. Increase scraper speed.
	Reactor bottom heavily clogged (can occur with frequent stops without stop procedure or feed rate too low).	Clean deposits from bottom of the reactor as follows: 1. Increase impeller speed to put solids into suspension. 2. If #1 ineffective, decrease the influent flow rate and lower an air or water injection rod to the bottom of the reactor tank to suspend the solids. 3. If #2 ineffective, stop influent flow and partially drain the reactor.
	Mixing reactor stopped.	Check, re-start.
	Mixing reactor rotation speed too slow (inadequate power) or too high (floc breakup).	Check, adjust.
	Scraping speed too high (breaks up floc).	Reduce speed.
	Raw water pollution variation.	Perform analysis and jar tests.

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PROBLEM	PROBABLE CAUSE	ACTION
	SCRAPER	
Local rise of floc.	Beginning of choking.	Refer to 2.7.
	Uneven settling in lamellar area. Note: At low flow rate, there may be slight distortion due to turbine influence without affecting treatment quality .	Check Sludge level. If too high, see 2.1. Inspect the area beneath the modules. If sludge present (% > 1) refer to section 2.4. Make sure reactor is not partially clogged. Consider cleaning of reactor. See section 2.5 for other actions. Reduce turbine rotation speed. Check neoprene drape to ensure that no large openings exist.
Modules clogged.	See 2.1,2.4, 2.6.	Stop flow of raw water to DensaDeg®. Allow to clarify for 1/2 - 2 hrs. If sludge remains in modules, clean modules by slowly draining the modules while cleaning the deposits with a hose.
Algae development in module.	Prolonged shutdown and sunlight.	See section 2.7. Break up algae with a water jet or similar means as the water is drained. If the above is inadequate, disinfect with chlorine bleach (50 g/m^3 to 100 g/m^3 of chlorine in static conditions (1 to 2 days).
	Raw water quality.	Raw water analysis should be surveyed constantly.

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EXHIBIT N

BROWN AND CALDWELL HEALTH AND SAFETY PLAN

Refer to Phase I Protocol

EXHIBIT O

PLWWTP CONTINGENCY PLAN
(November 19, 2003 Version)

Refer to Phase I Protocol

BROWN AND CALDWELL

Appendix E. Phase I and Phase II

Lab Analysis Results
Meter and Pilot Instrument Readings
Pressure Plots

Week	Comp Sample	Flow (gpm)			Flow (gpm/SF)			O-PO4 (as P) Concentration (mg/L)				TBOD Concentration (mg/L)				COD Concentration (mg/L)				Ortho-P : COD Ratio				COD:TBOD Ratio				NH3-N Rem			Alkanity (as HCO3) Rem			HCO3:NH3-N Ratio (8.64 Theo)			TBOD:TKN Ratio			
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEFF	13-BFCEff	13-BFNEff	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	13-Inf	13-BSEFF	13-BFCEff	13-BFNEff	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	BIOFOR-C	BIOFOR-N	BIOSTYR	BIOFOR-C	BIOFOR-N	BIOSTYR	BIOFOR-C	BIOFOR-N	Inf	BSEff	BFCEff	BFNEff
1	23-Feb-04		6.55	6.91		2.08	3.91	0.044		0.120	0.179					229		129	41	0.0002		0.0009	0.0044						7.0	12.9		44.0	83.8		6.29	6.50				
1	24-Feb-04		8.65	8.19		2.75	4.63	0.051		0.113	0.142	68		22	30	256		117	95	0.0002		0.0010	0.0015	3.8		5.4	3.2		5.9	13.4		44.0	83.0		7.46	6.19	1.83		1.01	3.17
1	25-Feb-04		8.14	7.90		2.59	4.47	0.109		0.109	0.137					260		108	108	0.0004		0.0010	0.0013						7.3	12.6		55.0	98.0		7.53	7.78				
1	27-Feb-04		8.65	8.28		2.75	4.68	0.043		0.042	0.061					200		88	68	0.0002		0.0005	0.0009						3.9	5.1		13.0	40.0		3.33	7.84				
1	28-Feb-04		8.77	7.70		2.79	4.36	0.052		0.045	0.057	93		31	15	222		86	56	0.0002		0.0005	0.0010	2.4		2.8	3.7		2.6	7.5		5.0	59.0		1.92	7.87	2.82		1.12	0.85
1	29-Feb-04		9.00	7.00		2.86	3.96	0.051		0.02	0.059					229		86	23	0.0002		0.0002	0.0026						3.1	9.2		9.0	65.0		2.90	7.07				
2	1-Mar-04		8.24	7.17		2.62	4.06	0.053		0.036	0.087	99		22	30	204		74	53	0.0003		0.0005	0.0016						3.4	10.9		8.0	85.0		2.35	7.80	2.83		0.75	1.98
2	2-Mar-04		8.70	7.57		2.77	4.28	0.053		0.052	0.079					203		72	56	0.0003		0.0007	0.0014						1.9	9.3		5.0	80.0		2.63	8.60				
2	3-Mar-04		8.72	7.81		2.78	4.42	0.104		0.041	0.089	85		15	43	242		79	60	0.0004		0.0005	0.0015	2.9		5.2	1.4		2.6	12.6		3.0	110.0		1.15	8.73	2.51		0.56	4.06
2	4-Mar-04		8.86	8.42		2.82	4.76	0.085		0.037	0.072					224		83	67	0.0004		0.0004	0.0011						3.1	15.4		7.0	119.0		2.26	7.73				
2	5-Mar-04		8.96	8.13		2.85	4.60	0.114		0.055	0.083	101		14	48	233		58	51	0.0005		0.0009	0.0016	2.3		4.3	1.1		1.4	15.9		1.0	127.0		0.71	7.99	2.81		0.44	4.14
2	6-Mar-04		8.99	8.06		2.86	4.56	0.133		0.095	0.085					233		74	61	0.0006		0.0013	0.0014						1.4	16		2.0	123.0		1.43	7.69				
2	7-Mar-04		8.79	7.86		2.80	4.45	0.253		0.155	0.144	122		18.7	45.7	249		85	66	0.0010		0.0018	0.0022	2.0		4.5	1.4		1.7	18.5		1.0	137.0		0.59	7.41	3.45		0.63	5.93
3	8-Mar-04		7.78	8.06		2.48	4.56	0.165		0.116	0.115					240		96	64	0.0007		0.0012	0.0018						3.1	15.4		4.0	122.0		1.29	7.92				
3	9-Mar-04		8.23	7.30		2.62	4.13	0.248		0.143	0.175	83.2		16.1	42.8	233		85	64	0.0011		0.0017	0.0027	2.8		5.3	1.5		1.7	15.1			123.0			8.15	2.24		0.53	3.60
3	10-Mar-04		7.91	7.11		2.52	4.02	0.187		0.152	0.203					253		90	66	0.0007		0.0017	0.0031						2.5	15.4			124.0			8.05				
3	11-Mar-04		8.18	6.99		2.60	3.96	0.188		0.146	0.205	86.5		12	43.9	253		77	66	0.0007		0.0019	0.0031	2.9		6.4	1.5		2.3	15.7			121.0			7.71	2.28		0.39	3.54
3	12-Mar-04		7.85	7.86		2.50	4.45	0.262		0.185	0.245					173		57.5	58	0.0015		0.0032	0.0042						2.0	4.7		12.0	23.0		6.00	4.89				
3	13-Mar-04		8.24	6.35		2.62	3.59	0.034		0.154	0.184	90.7		16.3	41.2	262		69	58	0.0001		0.0022	0.0032	2.9		4.2	1.4		1.7								2.59		0.55	1.38
3	14-Mar-04		8.20	6.66		2.61	3.77	0.05		0.117	0.152					221		56	56	0.0002		0.0021	0.0027						4.5			3.0			0.67					
4	15-Mar-04		8.26	3.46		2.63	1.96	0.216		0.186	0.165	102		18.6	43.3	239		69	59	0.0009		0.0027	0.0028	2.3		3.7	1.4		2.2	0.6		5.0			2.27		2.68		0.57	1.42
4	16-Mar-04		2.05	7.61		0.65	4.31	0.215		0.116	0.098					226		64	59	0.0010		0.0018	0.0017						2.6	16.5		5.0	124.0		1.92	7.52				
4	17-Mar-04		8.05	7.17		2.56	4.06	0.084		0.141	0.141	80.6		12.4	36.1	238		61	40	0.0004		0.0023	0.0035	3.0		4.9	1.1		2.5	16.8		6.0	137.0		2.40	8.15	2.21		0.42	4.06
4	18-Mar-04		7.94	7.50		2.53	4.24	0.143		0.123	0.123					235		61.5	53	0.0006		0.0020	0.0023						2.8	19.3		11.0	155.0		3.93	8.03				
4	19-Mar-04		7.86	4.93		2.50	2.79	0.103		0.143	0.132	100		24.4	34.2	149		55	35	0.0007		0.0026	0.0038	1.5		2.3	1.0		2.0	20.4		8.0	165.4		4.00	8.11	2.80		0.80	5.75
4	20-Mar-04		7.86	5.45		2.50	3.09	0.125		0.127	0.117					166		29	42	0.0008		0.0044	0.0028						2.2	19.4		7.0	161.9		3.18	8.35				
4	21-Mar-04		8.13	4.77		2.59	2.70	0.1		0.05	0.106	114		19.1	26.2	178		58	36	0.0006		0.0009	0.0029	1.6		3.0	1.4			22.4			177.3			7.92	3.84		0.55	5.73
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	0.162	0.065	0.221	0.209					168	66	57	35	0.0010	0.0010	0.0039	0.0060					2.5	1.9	20.5	7.0	5.0	173.4	2.80	2.63	8.46				
5	23-Mar-04	9.00	8.00	6.61	2.43	2.54	3.74	0.079	0.106	0.202	0.286	82.7	12.3	17.2	12.8	161	69	68	33	0.0005	0.0015	0.0030	0.0087	1.9	5.6	4.0	2.6	0.3	2.0	12.8	4.0	3.0	94.0	13.33	1.50	7.34	2.16	0.38	0.53	0.82
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	0.161	0.128	0.335	0.295					166	66	64	43	0.0010	0.0019	0.0052	0.0069					1.1	2.0	18.7	3.0	0.0	157.0	2.73		8.40				
5	25-Mar-04	9.00	7.84	6.80	2.43	2.50	3.85	0.149	0.161	0.262	0.319	67.1	15.5	11.1	35.7	163	101	45	32	0.0009	0.0016	0.0058	0.0100	2.4	6.5	4.1	0.9	2.8	2.0	20.7	11.0	3.0	150.2	3.93	1.50	7.26	1.80	0.47	0.36	4.81
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	0.337	0.156	0.286	0.294																	1.9	2.2	22.7	5.0	3.0	171.4	2.63	1.36	7.55				
5	27-Mar-04	9.00	7.27	7.08	2.43	2.31	4.00	0.222	0.138	0.321	0.336	90.4	22.9	19.5	21.5	149	62	48	32.5	0.0015	0.0022	0.0067	0.0103	1.6	2.7	2.5	1.5	1.7	2.0	23.8	10.0	8.0	181.7	5.88	4.00	7.63	2.62	0.69	0.66	7.65
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	0.408	0.13	0.343	0.333					172	55	49	33	0.0024	0.0024	0.0070	0.0101					1.7	2.5	23.3	14.0	10.0	182.0	8.24	4.00	7.81				
6	29-Mar-04	9.00	8.07	6.18	2.43	2.57	3.50	0.494	0.197	0.397	0.426	78.9	19.4	11	14.2	156	70	46	30	0.0032	0.0028	0.0086	0.0142	2.0	3.6	4.2	2.1	1.4	4.5	11.5	10.0	23.0	89.0	7.14	5.11	7.74	2.09	0.65	0.38	1.02
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	0.355	0.169	0.369	0.349					159	59	52	33	0.0022	0.0029	0.0071	0.0106					1.4	1.1	23	9.0	3.0	178.6	6.43	2.73	7.77				
6	31-Mar-04	8.50	7.51	6.03	2.30	2.39	3.41	0.21	0.189	0.252	0.21	85.5	22.1	23.2	6.75	168	61	56	32	0.0013	0.0031	0.0045	0.0066	2.0	2.8	2.4	4.7	1.2	2.6	24.3	3.0	3.0	189.1	2.50	1.15	7.78	2.29	0.67	0.75	3.52
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	0.407	0.214	0.333	0.25					191	63	53	35	0.0021	0.0034	0.0063	0.0071					3.3	2.5	24.3	16.0	4.0	191.6	4.85	1.60	7.88				
6	2-Apr-04	9.40	7.39	6.52	2.54	2.35	3.69		0.186	0.434	0.369		22.9	19.2	19.6		65	56	38.5		0.0029	0.0078	0.0096		2.8	2.9	2.0						184.0					0.73	0.66	8.67
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	0.414	0.138	0.638	0.553					192	65	58	36	0.0022	0.0021	0.0110	0.0154					3.1	2.0	23.5	10.0		183.9	3.23		7.83				
6	4-Apr-04	8.23	6.60	5.63	2.22	2.10	3.19	0.441	0.774	0.745	0.647	108	20.2	20.4	7.44	199	54	69	36	0.0022	0.0143	0.0108	0.0180	1.8	2.7	3.4	4.8	2.5	2.2	23.8	13.0	5.0	178.0	5.20	2.27	7.48	2.98	0.69	0.65	3.96
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	0.58	0.392	0.722	0.717					178	66	53	34	0.0033	0.0059	0.0136	0.0211					1.7	2.0	24	21.0	7.0	188.7	12.35	3.50	7.86				
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	0.411	0.431	0.688	0.718	91.9	28.3	20	10.7	184	64	54	31	0.0022	0.0067	0.0127	0.0232	2.0	2.3	2.7	2.9	1.9	1.4	24	19.0	9.0	186.2	10.00	6.43	7.76	2.43	0.87	0.63	4.33
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93	0.505	0.24	0.84	0.774					163	62	57	34	0.0031	0.0039	0.0147	0.0228					3.7	2.8	24.1	20.0	5.0	190.2	5.41	1.79	7.89				
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	0.349	0.222	0.341	0.546	88.8	22.5	21.1	6.18	189	62	58	33	0.0018	0.0036	0.0059	0.0165	2.1	2.8	2.7	5.3	4.0	4.0	22.9	18.0	10.0	191.8	4.50	2.50	8.38	2.34	0.75	0.67	
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	0.479	0.279	0.446	0.429					203	61	60	38	0.0024	0.0046	0.0074	0.0113					2.3	2.3	22.9	12.0	4.0	191.6	5.22	1.74	8.37				
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	0.387	0.303	0.521	0.53	96	21.4	17	6.24	176	56	54	32	0.0022	0.0054	0.0096	0.0166	1.8	2.6	3.2	5.1	2.2	1.9		18.0	8.0	186.4	8.18	4.21		2.87	0.71	0.59	
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	0.471	0.247	0.539	0.554					189	53	51	37	0.0025	0.0047	0.0106	0.0150					2.5	2.3		20.0	11.0	183.4	8.00	4.78					
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	0.327	0.294	0.505	0.545	98.1	16.5	14.3	26.8	171	63	56	36.5	0.0019	0.0047	0.0090	0.0149	1.7	3.8	3.9	1.4	2.0	1.4	19.9	12.0	5.0	151.0	6.00	3.57	7.59	2.67	0.59	0.41	2.98
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	0.303	0.289	3.48	2.53					188	62	104	45	0.0016	0.0047	0.0335	0.0562					1.0		26.49	4.0		201.5	4.00		7.61				
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	0.307	0.302	0.295	2.28	81.2	18.7	29.2	32.5	196	62	105	74	0.0016	0.0049	0.0028	0.0308	2.4	3.3	3.6	2.3	2.0	0.7	8.1	9.0		43.0	4.50		5.31	2.26	0.57	0.88	1.39
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	0.667	0.196	0.103						218	59	59		0.0031	0.0033	0.0017						3.9	2.7	26.4	19.0	8.0	254.0	4.87	2.96	9.62				
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	0.348	0.432	0.197		101	24.5	22.9		187	62	61		0.0019	0.0070	0.0032		1.9	2.5	2.7		3.1	2.1	25.6	11.0	0.0	259.0	3.55		10.12	2.64	0.79	0.71	
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07	0.198	0.378	0.181						197	64	51		0.0010	0.0059	0.0035						2.7	1.6	25.7	7.0	5.0	243.0	2.59	3.13	9.46				
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	0.262	0.454	0.347	0.269	107	27.1	28.2	15.4	192	61	49	42.5	0.0014	0.0074	0.0071	0.0063	1.8	2.3	1.7	2.8	2.3	1.3		8.0			3.48			3.13	0.92	0.98	0.52
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	0.22	0.509	0.37	0.159					182	62	48	44.5	0.0012	0.0082	0.0077	0.0036					2.6	2.1	16.37	106.0		126.0	40.77		7.70				
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	0.207	0.625	0.276	0.356	86.6		20.4	18.4	191	75	52	40	0.0011	0.0083	0.0053	0.0089	2.2		2.5	2.2	26.2	1.3	24.9	7.0	7.0	160.3	0.27	5.38	6.44	2.35		0.68	3.91
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	0.295	0.29	0.333	0.277					201	72	58	47	0.0015	0.0040	0.0057	0.0059								10.0	1.0	172.3							
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	0.72	0.328	0.374	0.299	104	16.7	15.1	3	206	64	49	29	0.0035	0.0051	0.0076	0.0103	2.0	3.8	3.2	9.7				9.0	6.0	191.2				2.69	0.53	0.53	
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	0.393	0.326	0.574						197	70	56		0.0020	0.0047	0.0103									14.0	6.0	253.0							
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	0.264	0.485	0.619	0.543	109	23.9	30.8	14.5	184	57	56	33	0.0014	0.0085	0.0111	0.0165	1.7	2.4	1.8	2.3	3.4	3.1	20.2	11.0	2.0	158.4	3.24	0.65	7.84	2.99	0.81	1.08	3.37
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	0.493	0.328	0.634	0.66					174	55	56	34	0.0028	0.0060	0.0113	0.0194					4.2	3.9	6.2	20.0		50.0	4.76		8.06				
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	0.294	0.405	0.382	0.472	96.9	33.1	21.5	41.9	192	67	76	34.5	0.0015	0.0060	0.0050	0.0137	2.0	2.0	3.5	0.8	2.5	2.2	15.4	21.0	12.0	120.0	8.40	5.45	7.79	2.53	1.19	0.65	3.74
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	0.198	0.25	0.448	0.365					387	95	51	38	0.0005	0.0026	0.0088	0.0096					3.7	3.1	26.3	43.0	31.0	193.9	11.62		7.37				
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	0.62	0.516	0.501	0.417	102	22.4	10.4	7.14	215	63	48	35	0.0029	0.0082	0.0104	0.0119	2.1	2.8	4.6	4.9	2.2	3.0		13.0	15.0	194.3	5.91	5.00		2.54	0.72	0.34	
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	0.384	0.53	0.642	0.49					271	72	48	36	0.0014	0.0074	0.0134	0.0136					3.0	3.3		19.0	13.0	203.7	6.33	3.94					
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	0.317	0.421	0.903	0.716	128	33.3	12.3		241	75	51	36	0.0013	0.0056	0.0177	0.0199	1.9	2.3	4.1		3.7	2.6		21.0	14.0	197.8	5.68	5.38					
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	0.497	0.263	0.856	0.753					231	67	55	37	0.0022	0.0039	0.0156	0.0204					2.9	2.5	24.28	16.0	5.0	186.9	5.52	2.00	7.70				
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	0.609	0.499	0.868	0.83	112	23	10.5	10.2	213	70	47	36	0.0029	0.0071	0.0185	0.0231	1.9	3.0	4.5	3.5	3.5	2.8		8.0	1.0	180.3	2.29	0.36					
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	0.777	0.646	0.896	0.827					207	68	49	41.5	0.0038	0.0095	0.0183	0.0199					2.2	2.7		8.0	15.0	177.7	3.64	5.56					
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	0.368	0.601	0.635	0.594	100	20.3	12.3	10.1	194	67	52	38	0.0019	0.0090	0.0122	0.0156	1.9	3.3	4.2	3.8	2.2	2.9		10.0	8.0	190.3	4.55	2.76		2.65	0.65	0.40	5.84
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	0.65	0.699	0.777	0.67					218	65	63	42	0.0030	0.0108	0.0123	0.0160					3.7	3.1		13.0	6.0	189.3	3.51	1.94					
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22		0.579	0.874	0.756						84.5	59	41		0.0069	0.0148	0.0184					-24.3	-24.3	24.07	13.0	3.0	185.3	-0.53	-0.12	7.70				
11	7-May-04	7.53	6.28	5.37	2.04	2.00	3.04	0.494	0.353	1.29	1.16					193	93	54	36.5	0.0026	0.0038	0.0239	0.0318					4.7	2.4		20.0	-4.0	188.4	4.26	-1.67					
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	0.173	0.523	0.657	0.766	105	29.9	12.9	6.81	183	61	47	33	0.0009	0.0086	0.0140	0.0232	1.7	2.0	3.6	4.8	3.7	4.2		9.0	9.0	178.5	2.43	2.14		2.92	0.90	0.45	3.85
11	9-May-04	7.41	6.19	5.44	2.00	1.97	3.08	0.402	0.573	0.649	0.578					182	56	49	37	0.0022	0.0102	0.0132	0.0156					2.5	2.5	25.2	5.0	1.0	183.7	2.00	0.40	7.29				
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	0.528	0.728	1.11	0.912	123	37.7	18.3	7.35	219	74	55	31	0.0024	0.0098	0.0202	0.0294	1.8	2.0	3.0	4.2	3.1	2.5		3.0	-8.0	184.1	0.97	-3.20		3.29	1.22	0.61	
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	0.327	0.643	0.99	0.939					210	72	56	40	0.0016	0.0089	0.0177	0.0235					3.1	3.4	26	5.0	0.0	180.9	1.61	0.00	6.96				
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	0.229	0.721	0.468	0.581	84.1	27.5	13.1	12.7	192	72	51	36	0.0012	0.0100	0.0092	0.0161	2.3	2.6	3.9	2.8	3.1	3.7	25.2	10.0	21.0	175.8	3.23	5.68	6.98	2.26	0.84	0.44	5.50
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	0.215	0.327	1.39	0.781					180	72	65	37	0.0012	0.0045	0.0214	0.0211					4.7	2.5	24.9	24.0	-2.0	180.1	5.11	-0.80	7.23				
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	0.106	0.33	1.44	2.6	113	39.4	36.8	27.8	204	63	89	50	0.0005	0.0052	0.0162	0.0520	1.8	1.6	2.4	1.8	5.0	2.0	25.4	20.0	-5.0	164.8	4.00	-2.50		3.03	1.24	1.09	9.72
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	0.231	0.375	0.254	0.257					184	60	47	37	0.0013	0.0063	0.0054	0.0069					4.2	2.5	24.6	17.0	-4.0	176.0	4.05	-1.60					
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	0.165	0.277	0.487		119	38.2	16.3		239	64	57		0.0007	0.0043	0.0085		2.0	1.7	3.5		5.4	2.0	26.6	21.0	-12.0	262.0	3.89	-6.00		3.30	1.62	0.53	
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	0.296	0.125	0.438						239	80	66.5		0.0012	0.0016	0.0066						5.9	3.1	25.5	29.0	1.0	245.0	4.92	0.32					
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	0.33	0.165	0.599		98.7	31.7	19.7		254	74	76		0.0013	0.0022	0.0079		2.6	2.3	3.9		6.4	1.6	27.2	33.0	-8.0	258.0	5.16	-5.00		2.71	1.11	0.63	
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	0.307	0.256	0.665						258	66	82		0.0012	0.0039	0.0081						7.0	2.2	26.9	28.0	-14.0	262.0	4.00	-6.36					
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	0.349	0.305	0.834		113	41	23.2		229	67	78		0.0015	0.0046	0.0107		2.0	1.6	3.4		7.5	2.8	27.1	30.0	-11.0	259.0	4.00	-3.93		3.05	1.56	0.74	
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	0.687	0.365	1.04						209	68	66		0.0033	0.0054	0.0158						7.6	2.3	27.7	39.0	-11.0	271.0	5.13	-4.78					
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	0.279	0.438	0.929		109		19.8		199		60		0.0014		0.0155		1.8		3.0		28.6	1.7	26.9	251.0	-16.0	267.0	8.78	-9.41		3.08		0.63	
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	0.523	0.511	0.868						200	58	59		0.0026	0.0088	0.0147						5.3	1.6	25.8	24.0	-20.0	265.0	4.53	-12.50					
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81	0.794	0.625	1.1						239	64	69		0.0033	0.0098	0.0159						5.9	2.5	25.5	27.0	-13.0	267.0	4.58	-5.20					
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	0.695	0.625	1.76						210	64	84		0.0033	0.0098	0.0210						5.6	2.0	29.1	28.0	-13.0	284.0	5.00	-6.50					
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	0.958	0.834	1.34		114	27.5	24.3		250	66	85		0.0038	0.0126	0.0158		2.2	2.4	3.5		6.5	2.3	27.4	31.0	-15.0	289.0	4.77	-6.52		2.77	0.90	0.70	
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	0.696	0.74	1.34						242	67	78		0.0029	0.0110	0.0172						4.7	1.1	27.7	28.0	-18.0	285.0	5.96	-16.36					
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	0.629	0.714	1.28		132	30.5	27		232	70	80		0.0027	0.0102	0.0160		1.8	2.3	3.0		6.5	2.3	27.4	26.0	-19.0	281.0	4.00	-8.26		3.31	1.03	0.80	
	Week 1 & 2 Average		8.54	7.77		2.72	4.40	0.088		0.071	0.098	95		20	35	230		88	62	0.0004		0.0008	0.0017	2.7		4.4	2.2		3.5	12.3		15.2	93.1		3.1	7.6	2.7		0.8	3.4
	Week 1 & 2 Min		6.55	6.91		2.08	3.91	0.043		0.020	0.057	68		14	15	200		58	23	0.0002		0.0002	0.0009	2.0		2.8	1.1		1.4	5.1		1.0	40.0		0.6	6.2	1.8		0.4	0.9
	Week 1 & 2Max		9.00	8.42		2.86	4.76	0.253		0.155	0.179	122		31	48	260		129	108	0.0010		0.0018	0.0044	3.8		5.4	3.7		7.3	18.5		55.0	137.0		7.5	8.7	3.4		1.1	5.9
	Week 3 & 4 Average		7.61	6.51		2.42	3.69	0.151		0.136	0.154	94		17	38	222		67	55	0.0007		0.0022	0.0029	2.4		4.3	1.3		2.5	15.1		6.8	130.3		2.9	7.7	2.7		0.5	3.6
	Week 3 & 4 Min		2.05	3.46		0.65	1.96	0.034		0.050	0.098	81		12	26	149		29	35	0.0001		0.0009	0.0017	1.5		2.3	1.0		1.7	0.6		3.0	23.0		0.7	4.9	2.2		0.4	1.4
	Week 3 & 4 Max		8.26	8.06		2.63	4.56	0.262		0.186	0.245	114		24	44	262		96	66	0.0015		0.0044	0.0042	3.0		6.4	1.5		4.5	22.4		12.0	177.3		6.0	8.3	3.8		0.8	5.7
	Week 5 & 6 Average	8.81	7.70	6.45	2.38	2.45	3.65	0.295	0.197	0.367	0.348	85	19	17	17	169	66	55	35	0.0017	0.0032	0.0067	0.0103	2.0	3.8	3.3	2.7	1.9	2.3	21.0	8.8	5.8	164.6	5.3	2.5	7.8	2.3	0.6	0.6	4.4
	Week 5 & 6 Min	7.05	6.60	4.72	1.91	2.10	2.67	0.079	0.065	0.202	0.209	67	12	11	7	149	54	45	30	0.0005	0.0010	0.0030	0.0060	1.6	2.7	2.4	0.9	0.3	1.1	11.5	3.0	0.0	89.0	2.5	1.2	7.3	1.8	0.4	0.4	0.8
	Week 5 & 6 Max	9.90	8.37	7.09	2.68	2.66	4.01	0.494	0.774	0.745	0.647	108	23	23	36	192	101	68	43	0.0032	0.0143	0.0110	0.0180	2.4	6.5	4.2	4.8	3.3	4.5	24.3	16.0	23.0	191.6	13.3	5.1	8.5	3.0	0.7	0.8	8.7
	Week 7-14 Average	7.18	6.06	4.61	1.94	1.93	2.61	0.421	0.432	0.761	0.747	105	28	20	15	209	67	61	38	0.0020	0.0065	0.0122	0.0189	2.0	2.5	3.3	3.6	4.2	1.9	23.9	23.5	1.1	202.0	5.5	-0.4	7.8	2.8	0.9	0.7	4.1
	Week 7- 14 Min	4.67	3.71	0.60	1.26	1.18	0.34	0.106	0.125	0.103	0.159	81	17	10	3	163	53	47	29	0.0005	0.0016	0.0017	0.0036	1.7	1.6	1.7	0.8	-24.3	-24.3	6.2	3.0	-20.0	43.0	-0.5	-16.4	5.3	2.3	0.5	0.3	0.5
	Week 7-14 Max	7.66	6.80	6.24	2.07	2.16	3.53	0.958	0.834	3.480	2.600	132	41	37	42	387	95	105	74	0.0038	0.0126	0.0335	0.0562	2.6	3.8	4.6	9.7	28.6	4.2	29.1	251.0	31.0	289.0	40.8	6.4	10.1	3.3	1.6	1.1	9.7

Values reported as less than (<) values are entered as a numeric value equal to half the detection level (ex. <7 is reported as 3.5) - colored boxes

Reported value was indicated as "greater than" the value shown.

Week	Comp Sample Start Date	Flow (gpm) BIOSTYR	Flow (gpm) BIOFOR C	Flow (gpm) BIOFOR N	Flow (gpm/SF) BIOSTYR	Flow (gpm/SF) BIOFOR C	Flow (gpm/SF) BIOFOR N	Ammonia-N Concentration (mg/L) 13-Inf	13-BSEff	13-BFCEff	13-BFNEff	Percent Removal BIOSTYR	Biofor C	Biofor N	2-Stage
1	23-Feb-04		6.55	6.91		2.08	3.91	22.7		15.7	2.8		30.8%	82.2%	87.7%
1	24-Feb-04		8.65	8.19		2.75	4.63	22.7		16.8	3.4		26.0%	79.8%	85.0%
1	25-Feb-04		8.14	7.90		2.59	4.47	26.9		19.6	7.0		27.1%	64.3%	74.0%
1	27-Feb-04		8.65	8.28		2.75	4.68	25.2		21.3	16.2		15.5%	23.9%	35.7%
1	28-Feb-04		8.77	7.70		2.79	4.36	25.8		23.2	15.7		10.1%	32.3%	39.1%
1	29-Feb-04		9.00	7.00		2.86	3.96	26.3		23.2	14		11.8%	39.7%	46.8%
2	1-Mar-04		8.24	7.17		2.62	4.06	28.3		24.9	14		12.0%	43.8%	50.5%
2	2-Mar-04		8.70	7.57		2.77	4.28	23.2		21.3	12		8.2%	43.7%	48.3%
2	3-Mar-04		8.72	7.81		2.78	4.42	23		20.4	7.8		11.3%	61.8%	66.1%
2	4-Mar-04		8.86	8.42		2.82	4.76	26.6		23.5	8.1		11.7%	65.5%	69.5%
2	5-Mar-04		8.96	8.13		2.85	4.60	27.4		26	10.1		5.1%	61.2%	63.1%
2	6-Mar-04		8.99	8.06		2.86	4.56	25.8		24.4	8.4		5.4%	65.6%	67.4%
2	7-Mar-04		8.79	7.86		2.80	4.45	25.8		24.1	5.6		6.6%	76.8%	78.3%
3	8-Mar-04		7.78	8.06		2.48	4.56	26.9		23.8	8.4		11.5%	64.7%	68.8%
3	9-Mar-04		8.23	7.30		2.62	4.13	26.6		24.9	9.8		6.4%	60.6%	63.2%
3	10-Mar-04		7.91	7.11		2.52	4.02	28.3		25.8	10.4		8.8%	59.7%	63.3%
3	11-Mar-04		8.18	6.99		2.60	3.96	28.6		26.3	10.6		8.0%	59.7%	62.9%
3	12-Mar-04		7.85	7.86		2.50	4.45	28.3		26.3	21.6		7.1%	17.9%	23.7%
3	13-Mar-04		8.24	6.35		2.62	3.59	27.7		26	26.6		6.1%	-2.3%	4.0%
3	14-Mar-04		8.20	6.66		2.61	3.77	28.6		24.1	25.2		15.7%	-4.6%	11.9%
4	15-Mar-04		8.26	3.46		2.63	1.96	28		25.8	25.2		7.9%	2.3%	10.0%
4	16-Mar-04		2.05	7.61		0.65	4.31	28.6		26	9.5		9.1%	63.5%	66.8%
4	17-Mar-04		8.05	7.17		2.56	4.06	25.2		22.7	5.9		9.9%	74.0%	76.6%
4	18-Mar-04		7.94	7.50		2.53	4.24	28.3		25.5	6.2		9.9%	75.7%	78.1%
4	19-Mar-04		7.86	4.93		2.50	2.79	27.2		25.2	4.8		7.4%	81.0%	82.4%
4	20-Mar-04		7.86	5.45		2.50	3.09	25.2		23	3.6		8.7%	84.3%	85.7%
4	21-Mar-04		8.13	4.77		2.59	2.70	24.4		26.3	3.9		-7.8%	85.2%	84.0%
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	26.3	23.8	24.4	3.9	9.5%	7.2%	84.0%	85.2%
5	23-Mar-04	9.00	8.00	6.61	2.43	2.54	3.74	28	27.7	26	13.2	1.1%	7.1%	49.2%	52.9%
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	26.6	25.5	24.6	5.9	4.1%	7.5%	76.0%	77.8%
5	25-Mar-04	9.00	7.84	6.80	2.43	2.50	3.85	28	25.2	26	5.3	10.0%	7.1%	79.6%	81.1%
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	28.8	26.9	26.6	3.9	6.6%	7.6%	85.3%	86.5%
5	27-Mar-04	9.00	7.27	7.08	2.43	2.31	4.00	26.9	25.2	24.9	1.1	6.3%	7.4%	95.6%	95.9%
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	26.6	24.9	24.1	0.8	6.4%	9.4%	96.7%	97.0%
6	29-Mar-04	9.00	8.07	6.18	2.43	2.57	3.50	27.2	25.8	22.7	11.2	5.1%	16.5%	50.7%	58.8%
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	27.7	26.3	26.6	3.6	5.1%	4.0%	86.5%	87.0%
6	31-Mar-04	8.50	7.51	6.03	2.30	2.39	3.41	27.2	26	24.6	0.3	4.4%	9.6%	98.8%	98.9%
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	27.4	24.1	24.9	0.6	12.0%	9.1%	97.6%	97.8%
6	2-Apr-04	9.40	7.39	6.52	2.54	2.35	3.69		23.5	23.8	0.6			97.5%	
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	25.8	22.7	23.8	0.3	12.0%	7.8%	98.7%	98.8%
6	4-Apr-04	8.23	6.60	5.63	2.22	2.10	3.19	26.3	23.8	24.1	0.3	9.5%	8.4%	98.8%	98.9%
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	26.6	24.9	24.6	0.6	6.4%	7.5%	97.6%	97.7%
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	26	24.1	24.6	0.6	7.3%	5.4%	97.6%	97.7%
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93	27.2	23.5	24.4	0.3	13.6%	10.3%	98.8%	98.9%
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	27.2	23.2	23.2	0.3	14.7%	14.7%	98.7%	98.9%
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	25.5	23.2	23.2	0.3	9.0%	9.0%	98.7%	98.8%
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	24.9	22.7	23	ND	8.8%	7.6%		
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	25.5	23	23.2	ND	9.8%	9.0%		
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	28.6	26.6	27.2	7.3	7.0%	4.9%	73.2%	74.5%
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	28.7	27.7	29.2	2.71	3.5%	-1.7%	90.7%	90.6%
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	27.4	25.4	26.7	18.6	7.3%	2.6%	30.3%	32.1%
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	29.1	25.2	26.4		13.4%	9.3%		
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	27.7	24.6	25.6		11.2%	7.6%		
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07	27.3	24.6	25.7		9.9%	5.9%		
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	25.6	23.3	24.3	25.3	9.0%	5.1%	-4.1%	1.2%
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	24.8	22.2	22.7	6.33	10.5%	8.5%	72.1%	74.5%
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	26.2		24.9			5.0%		
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12								
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89								
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19								
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	25.8	22.4	22.7	2.5	13.2%	12.0%	89.0%	90.3%
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	26.6	22.4	22.7	16.5	15.8%	14.7%	27.3%	38.0%
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	26.3	23.8	24.1	8.7	9.5%	8.4%	63.9%	66.9%
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	29.7	26	26.6	0.3	12.5%	10.4%	98.9%	99.0%
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	30.2	28	27.2	ND	7.3%	9.9%		
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	31.6	28.6	28.3	ND	9.5%	10.4%		
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	29.3	25.6	26.7	ND	12.6%	8.9%		
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	27	24.1	24.5	0.22	10.7%	9.3%	99.1%	99.2%
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	26.1	22.6	23.3	ND	13.4%	10.7%		
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	25.1	22.9	22.4	ND	8.8%	10.8%		
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	28.6	26.4	25.7	ND	7.7%	10.1%		
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	28.8	25.1	25.7	ND	12.8%	10.8%		
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22		24.3	24.3	0.23			99.1%	
11	7-May-04	7.53	6.28	5.37	2.04	2.00	3.04	27.3	22.6	24.9	ND	17.2%	8.8%		
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	28.6	24.9	24.4	ND	12.9%	14.7%		
11	9-May-04	7.41	6.19	5.44	2.00	1.97	3.08	28	25.5	25.5	0.3	8.9%	8.9%	98.8%	98.9%
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	27.7	24.6	25.2	ND	11.2%	9.0%		
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	29.7	26.6	26.3	0.3	10.4%	11.4%	98.9%	99.0%
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	29.7	26.6	26	0.8	10.4%	12.5%	96.9%	97.3%
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	28.8	24.1	26.3	1.4	16.3%	8.7%	94.7%	95.1%
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	29.4	24.4	27.4	2	17.0%	6.8%	92.7%	93.2%
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	27.4	23.2	24.9	0.3	15.3%	9.1%	98.8%	98.9%
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	28.6	23.2	26.6		18.9%	7.0%		
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	28.6	22.7	25.5		20.6%	10.8%		
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	28.8	22.4	27.2		22.2%	5.6%		
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	29.1	22.1	26.9		24.1%	7.6%		
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	29.9	22.4	27.1		25.1%	9.4%		
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	30	22.4	27.7		25.3%	7.7%		
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	28.6		26.9			5.9%		
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	27.4	22.1	25.8		19.3%	5.8%		
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81	28	22.1	25.5		21.1%	8.9%		
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	31.1	25.5	29.1		18.0%	6.4%		
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	29.7	23.2	27.4		21.9%	7.7%		
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	28.8	24.1	27.7		16.3%	3.8%		
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	29.7	23.2	27.4		21.9%	7.7%		
Week 1 & 2 Average			8.5	7.8		2.7	4.4	25.4		21.9	9.6		14.0%	57.0%	62.4%
Week 1 & 2 Min			6.6	6.9		2.1	3.9	22.7		15.7	2.8		5.1%	23.9%	35.7%
Week 1 & 2Max			9.0	8.4		2.9	4.8	28.3		26.0	16.2		30.8%	82.2%	87.7%
Week 3 & 4 Average			7.6	6.5		2.4	3.7	27.3		25.1	12.3		7.8%	51.5%	55.8%
Week 3 & 4 Min			2.1	3.5		0.7	2.0	24.4		22.7	3.6		-7.8%	-4.6%	4.0%
Week 3 & 4 Max			8.3	8.1		2.6	4.6	28.6		26.3	26.6		15.7%	85.2%	85.7%
Week 5 & 6 Average		8.81	7.70	6.45	2.38	2.45	3.65	27.1	25.1	24.8	3.6	7.1%	8.4%	85.4%	85.9%
Week 5 & 6 Min		7.05	6.60	4.72	1.91	2.10	2.67	25.8	22.7	22.7	0.3	1.1%	4.0%	49.2%	52.9%
Week 5 & 6 Max		9.90	8.37	7.09	2.68	2.66	4.01	28.8	27.7	26.6	13.2	12.0%	16.5%	98.8%	98.9%
Week 7-14 Average		7.18	6.06	4.61	1.94	1.93	2.61	27.97	24.17	25.58	4.4	13.5%	8.4%	82.3%	82.9%
Week 7- 14 Min		4.67	3.71	0.60	1.26	1.18	0.34	24.80	22.10	22.40	0.2	3.5%	-1.7%	-4.1%	1.2%
Week 7-14 Max		7.66	6.80	6.24	2.07	2.16	3.53	31.60	28.60	29.20	25.3	25.3%	14.7%	99.1%	99.2%

Week	Comp Sample Start Date	Nitrite (as N) Concentration (mg/L) [(a)] 13-Inf	13-BSEff	13-BFCEff	13-BFNEff	TKN Concentration (mg/L) 13-Inf	13-BSEff	13-BFCEff	13-BFNEff	Percent Removal BIOSTYR	Biofor C	Biofor N	2-Stage	NO3 Concentration (mg/L) 13-Inf	13-BSEff	13-BFCEff	13-BFNEff
1	23-Feb-04					33.3		19.8	9.65		40.5%	51.3%	71.0%				
1	24-Feb-04					37.2		21.6	9.38		41.9%	56.6%	74.8%				
1	25-Feb-04	0.011		3.37	6.86	37.8		22.5	9.7		40.5%	56.9%	74.3%				
1	27-Feb-04	0.01		2.21	4.96	33.3		27	19.5		18.9%	27.8%	41.4%				
1	28-Feb-04					33		27.4	17.7		17.0%	35.4%	46.4%				
1	29-Feb-04					32.6		27.9	16.2		14.4%	41.9%	50.3%				
2	1-Mar-04					35.1		29.1	15.2		17.1%	47.8%	56.7%				
2	2-Mar-04					35.8		28.2	15.5		21.2%	45.0%	56.7%				
2	3-Mar-04					33.7		27.2	10.7		19.3%	60.7%	68.2%				
2	4-Mar-04					34.8		28.7	10.8		17.5%	62.4%	69.0%				
2	5-Mar-04					35.9		31	11.5		13.6%	62.9%	68.0%				
2	6-Mar-04					34.7		29.1	10.4		16.1%	64.3%	70.0%				
2	7-Mar-04					35.4		29.7	7.71		16.1%	74.0%	78.2%				
3	8-Mar-04					36.3		30.6	10.6		15.7%	65.4%	70.8%				
3	9-Mar-04					37.1		30.5	11.9		17.8%	61.0%	67.9%				
3	10-Mar-04					37.3		31.1	12.8		16.6%	58.8%	65.7%				
3	11-Mar-04	0.005		0.433	6.9	37.9		30.9	12.4		18.5%	59.9%	67.3%				
3	12-Mar-04	0.01		0.593	1.28	37.7		31.1	24.4		17.5%	21.5%	35.3%				
3	13-Mar-04					35		29.5	29.9		15.7%		14.6%				
3	14-Mar-04					34.1		29.6	29.6		13.2%	0.0%	13.2%				
4	15-Mar-04					38		32.5	30.5		14.5%	6.2%	19.7%				
4	16-Mar-04					38.4		31.3	11.9		18.5%	62.0%	69.0%				
4	17-Mar-04					36.5		29.2	8.9		20.0%	69.5%	75.6%				
4	18-Mar-04					39.2		32.2	9.16		17.9%	71.6%	76.6%				
4	19-Mar-04	0.021		0.721	1.79	35.7		30.6	5.95		14.3%	80.6%	83.3%				
4	20-Mar-04	0.024		0.712	0.913	34.2		28.8	5.26		15.8%	81.7%	84.6%				
4	21-Mar-04					29.7		34.6	4.57			86.8%	84.6%				
5	22-Mar-04					37.6	32.3	31.6	5.74	14.1%	16.0%	81.8%	84.7%				
5	23-Mar-04					38.3	33.4	32.3	15.6	12.8%	15.7%	51.7%	59.3%				
5	24-Mar-04					38.9	33.1	32.7	8.28	14.9%	15.9%	74.7%	78.7%				
5	25-Mar-04					37.2	34.4	30.7	7.42	7.5%	17.5%	75.8%	80.1%				
5	26-Mar-04	0.055	0.053	0.492	0.666	36.8	33.2	30.8	5.45	9.8%	16.3%	82.3%	85.2%				
5	27-Mar-04	0.104	0.796	0.553	0.522	34.5	30.6	29.5	2.81	11.3%	14.5%	90.5%	91.9%	0.11	0.11	0.46	22
5	28-Mar-04	0.15	1.3	0.96	0.95	34.8	30	28.8	2.32	13.8%	17.2%	91.9%	93.3%				
6	29-Mar-04					37.7	33.7	29.3	13.9	10.6%	22.3%	52.6%	63.1%				
6	30-Mar-04	0.15	2.3	2.1	2.4	37.4	33	32.8	5.3	11.8%	12.3%	83.8%	85.8%	0.11	0.11	0.39	22
6	31-Mar-04	0.75	6.6	4.7	0.15	37.4	32.9	30.9	1.92	12.0%	17.4%	93.8%	94.9%	0.11	0.11	1.1	24
6	1-Apr-04					37.3	31.2	31.9	2.19	16.4%	14.5%	93.1%	94.1%				
6	2-Apr-04						29.6	29	2.26			92.2%					
6	3-Apr-04					35.6	29.3	29.2	2.09	17.7%	18.0%	92.8%	94.1%				
6	4-Apr-04	1.9	3.8	2.3	0.75	36.3	30.1	31.6	1.88	17.1%	12.9%	94.1%	94.8%	0.11	0.11	0.56	22
7	5-Apr-04					36.7	32.4	31.5	2.15	11.7%	14.2%	93.2%	94.1%				
7	6-Apr-04	1.2	4.3	1.5	1.6	37.8	31.7	31.7	2.47	16.1%	16.1%	92.2%	93.5%	0.055	0.055	0.78	24
7	7-Apr-04					37.8	29.9	31.2	1.61	20.9%	17.5%	94.8%	95.7%				
7	8-Apr-04	1.3	4.3	1.6	0.375	37.9	31.6	31.5	ND	16.6%	16.9%			0.11	0.11	0.82	28
7	9-Apr-04					35.9	30.3	30.1	1.61	15.6%	16.2%	94.7%	95.5%				
7	10-Apr-04					33.5	28.3	28.8	ND	15.5%	14.0%						
7	11-Apr-04	2.1	4	2.3	0.375	34.1	28.1	28.2	1.7	17.6%	17.3%	94.0%	95.0%	0.055	0.055	0.83	23
8	12-Apr-04	1.6	2.8	1.7	1.6	36.7	32.2	35.1	8.99	12.3%	4.4%	74.4%	75.5%	0.055	0.055	0.51	18
8	13-Apr-04					35.5	32.9	34.6	4.18	7.3%	2.5%	87.9%	88.2%				
8	14-Apr-04	1.5	2.6	1	1.2	35.9	30.1	33.1	23.3	16.2%	7.8%	29.6%	35.1%	0.12	0.055	0.055	6.6
8	15-Apr-04					39.2	31	31.9		20.9%	18.6%						
8	16-Apr-04					38.3	30.2	32.3		21.1%	15.7%						
8	17-Apr-04					35.3	29.4	29.7		16.7%	15.9%						
8	18-Apr-04	1.9	3.9	2.6	1.2	34.2	14.2	28.9	29.4	58.5%	15.5%	-1.7%	14.0%	0.055	0.11	0.18	0.2
9	19-Apr-04					35.1	28.2	28.1	9.16	19.7%	19.9%	67.4%	73.9%				
9	20-Apr-04	1.5	3.1	2.3	15	36.8	30.8	30.1	4.71	16.3%	18.2%	84.4%	87.2%	0.14	0.15	0.35	10
9	21-Apr-04					38.4	31.8	31.2	5.2	17.2%	18.8%	83.3%	86.5%				
9	22-Apr-04	0.75	3.1	2.2	3.2	38.7	31.2	28.7		19.4%	25.8%			0.055	0.12	0.32	23
9	23-Apr-04					36	29.5	29.6	ND	18.1%	17.8%						
9	24-Apr-04					36.5	28.8	28.6	4.3	21.1%	21.6%	85.0%	88.2%				
9	25-Apr-04	1.7	3.9	2.1	0.75	34.9	27.7	29	19.8	20.6%	16.9%	31.7%	43.3%	0.055	0.54	0.37	6
10	26-Apr-04	1.6	4.3	2.5	0.055	38.3	30.9	33	11.2	19.3%	13.8%	66.1%	70.8%	0.055	0.56	0.38	15
10	27-Apr-04					44.6	30.9	30.9	ND	30.7%	30.7%						
10	28-Apr-04	1.5	2.4	2.1	0.75	40.1	32.5	30.6	ND	19.0%	23.7%			0.055	0.055	0.44	24
10	29-Apr-04					43.9	32.8	30.9	ND	25.3%	29.6%						
10	30-Apr-04					39.3	30.4	30.7	ND	22.6%	21.9%						
10	1-May-04					35.2	28.4	28.3	1.78	19.3%	19.6%	93.7%	94.9%				
10	2-May-04	1.1	1.5	1.2	0.75	34.3	28	27.9	ND	18.4%	18.7%			0.055	0.19	0.46	22
11	3-May-04					40.2	31.4	29.5	2.36	21.9%	26.6%	92.0%	94.1%				
11	4-May-04					37.8	31.7	30.6	1.73	16.1%	19.0%	94.3%	95.4%				
11	5-May-04					37.7	31.1	30.7	1.66	17.5%	18.6%	94.6%	95.6%				
11	6-May-04		2.7	1.7	0.375		32.1	30	1.75			94.2%			0.3	0.56	23
11	7-May-04					38.1	33.1	31.1	ND	13.1%	18.4%						
11	8-May-04					36	28.9	28.9	1.77	19.7%	19.7%	93.9%	95.1%				
11	9-May-04	1.3	2.4	1.6	1.3	35.7	31	29.5	2.08	13.2%	17.4%	92.9%	94.2%	0.13	0.43	0.58	22
12	10-May-04	1.2	2.2	1.4	0.89	37.4	31.7	30.1	ND	15.2%	19.5%			0.14	0.52	0.54	23
12	11-May-04					38.6	32.7	30.8	5.09	15.3%	20.2%	83.5%	86.8%				
12	12-May-04	1.3	2.9	2.9	1.6	37.2	32.7	30	2.31	12.1%	19.4%	92.3%	93.8%	0.15	0.68	0.72	24
12	13-May-04					38	31.8	31.4	2.23	16.3%	17.4%	92.9%	94.1%				
12	14-May-04					37.3	29.8	33.7	2.86	20.1%	9.7%	91.5%	92.3%				
12	15-May-04					35	23.6	28.7	1.75	32.6%	18.0%	93.9%	95.0%				
12	16-May-04	1.5	4.5	1.5		36.1	27.9	30.7		22.7%	15.0%			0.15	1.1	0.17	
13	17-May-04					37	28.6	29.8		22.7%	19.5%						
13	18-May-04	1.5	4.7	1.4		36.4	26.9	31.2		26.1%	14.3%			0.25	1.6	0.23	
13	19-May-04					36.9	26.3	31.6		28.7%	14.4%						
13	20-May-04	1.3	4.3	1.1		37	26.3	31.3		28.9%	15.4%			0.25	1.9	0.24	
13	21-May-04					36.5	27.3	31.8		25.2%	12.9%						
13	22-May-04					35.4		31.3			11.6%						
13	23-May-04	1.3	3.4	1.4		36.2	26.5	31.1		26.8%	14.1%			0.16	2.7	0.28	
14	24-May-04	1.7	3.3	1.6		37.9	27.3	31.4		28.0%	17.2%			0.31	2.3	0.29	
14	25-May-04					41.2	30.5	36.3		26.0%	11.9%						
14	26-May-04	2	3.9	1.6		41.2	30.1	34.5		26.9%	16.3%			0.24	2.8	0.055	
14	27-May-04					39.8	29.6	33.8		25.6%	15.1%						
14	28-May-04					39.9	29.1	33.8		27.1%	15.3%						
Week 1 & 2 Average		0.011		2.8	5.9	34.8		26.9	12.6		22.6%	52.8%	63.5%				
Week 1 & 2 Min		0.010		2.2	5.0	32.6		19.8	7.7		13.6%	27.8%	41.4%				
Week 1 & 2Max		0.011		3.4	6.9	37.8		31.0	19.5		41.9%	74.0%	78.2%				
Week 3 & 4 Average		0.015		0.6	2.7	36.2		30.9	14.8		16.6%	55.8%	59.2%				
Week 3 & 4 Min		0.005		0.4	0.9	29.7		28.8	4.6		13.2%	0.0%	13.2%				
Week 3 & 4 Max		0.024		0.7	6.9	39.2		34.6	30.5		20.0%	86.8%	84.6%				
Week 5 & 6 Average		0.518	2.5	1.9	0.9	36.9	31.9	30.8	5.5	13.1%	16.2%	82.2%	84.6%	0.11	0.11	0.63	22.5
Week 5 & 6 Min		0.055	0.1	0.5	0.2	34.5	29.3	28.8	1.9	7.5%	12.3%	51.7%	59.3%	0.11	0.11	0.39	22.0
Week 5 & 6 Max		1.900	6.6	4.7	2.4	38.9	34.4	32.8	15.6	17.7%	22.3%	94.1%	94.9%	0.11	0.11	1.10	24.0
Week 7-14 Average		1.469	3.4	1.8	1.9	37.4	29.7	30.9	5.8	20.8%	17.1%	81.0%	83.4%	0.13	0.74	0.42	18.24
Week 7- 14 Min		0.750	1.5	1.0	0.1	33.5	14.2	27.9	1.6	7.3%	2.5%	-1.7%	14.0%	0.06	0.06	0.06	0.20
Week 7-14 Max		2.100	4.7	2.9	15.0	44.6	33.1	36.3	29.4	58.5%	30.7%	94.8%	95.7%	0.31	2.80	0.83	28.00

(a) Values reported as less than (<) values are entered as a numeric value equal to half the detection level (ex. <7 is reported as 3.5) - colored boxes

	Comp Sample	Flow (gpm)			Flow (gpm/SF)			TBOD Concentration (mg/L)				Percent Removal				TBOD Loading - BS		TBOD Loading - BFC		TBOD Loading - BFN	
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage	lb/d	lb/d/kcf	lb/d	lb/d/kcf	lb/d	lb/d/kcf
1	24-Feb-04		8.65	8.19		2.75	4.63	67.9		21.8	29.7		67.9%		56.3%			7.06	185.7	2.27	106.0
1	28-Feb-04		8.77	7.70		2.79	4.36	93.1		30.6	15.1		67.1%	50.7%	83.8%			9.81	258.1	3.22	150.8
2	1-Mar-04		8.24	7.17		2.62	4.06	99.2		21.8	30.1		78.0%	-38.1%	69.7%			9.82	258.4	2.16	101.0
2	3-Mar-04		8.72	7.81		2.78	4.42	84.7		15.3	43.4		81.9%	-183.7%	48.8%			8.88	233.5	1.60	75.0
2	5-Mar-04		8.96	8.13		2.85	4.60	101		13.5	47.6		86.6%	-252.6%	52.9%			10.88	286.1	1.45	68.0
2	7-Mar-04		8.79	7.86		2.80	4.45	122		18.7	45.7		84.7%	-144.4%	62.5%			12.89	339.0	1.98	92.4
3	9-Mar-04		8.23	7.30		2.62	4.13	83.2		16.1	42.8		80.6%	-165.8%	48.6%			8.23	216.5	1.59	74.5
3	11-Mar-04		8.18	6.99		2.60	3.96	86.5		12	43.9		86.1%	-265.8%	49.2%			8.50	223.7	1.18	55.2
3	13-Mar-04		8.24	6.35		2.62	3.59	90.7		16.3	41.2		82.0%	-152.8%	54.6%			8.98	236.3	1.61	75.5
4	15-Mar-04		8.26	3.46		2.63	1.96	102		18.6	43.3		81.8%	-132.8%	57.5%			10.12	266.3	1.85	86.3
4	17-Mar-04		8.05	7.17		2.56	4.06	80.6		12.4	36.1		84.6%	-191.1%	55.2%			7.80	205.2	1.20	56.1
4	19-Mar-04		7.86	4.93		2.50	2.79	100		24.4	34.2		75.6%	-40.2%	65.8%			9.44	248.4	2.30	107.7
4	21-Mar-04		8.13	4.77		2.59	2.70	114		19.1	26.2		83.2%	-37.2%	77.0%			11.14	293.0	1.87	87.3
5	23-Mar-04	9.00	8.00	6.61	2.17	2.54	3.74	82.7	12.3	17.2	12.8	85.1%	79.2%	25.6%	84.5%	8.94	211.3	7.95	209.0	1.65	77.3
5	25-Mar-04	9.00	7.84	6.80	2.13	2.50	3.85	67.1	15.5	11.1	35.7	76.9%	83.5%	-221.6%	46.8%	7.26	171.5	6.32	166.3	1.05	48.9
5	27-Mar-04	9.00	7.27	7.08	1.97	2.31	4.00	90.4	22.9	19.5	21.5	74.7%	78.4%	-10.3%	76.2%	9.78	231.0	7.90	207.7	1.70	79.6
6	29-Mar-04	9.00	8.07	6.18	2.19	2.57	3.50	78.9	19.4	11	14.2	75.4%	86.1%	-29.1%	82.0%	8.53	201.6	7.65	201.2	1.07	49.9
6	31-Mar-04	8.50	7.51	6.03	2.04	2.39	3.41	85.5	22.1	23.2	6.75	74.2%	72.9%	70.9%	92.1%	8.73	206.3	7.72	203.0	2.09	97.9
6	2-Apr-04	9.40	7.39	6.52	2.00	2.35	3.69		22.9	19.2	19.6			-2.1%						1.71	79.7
6	4-Apr-04	8.23	6.60	5.63	1.79	2.10	3.19	108	20.2	20.4	7.44	81.3%	81.1%	63.5%	93.1%	10.67	252.2	8.57	225.3	1.62	75.7
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	91.9	28.3	20	10.7	69.2%	78.2%	46.5%	88.4%	6.48	153.1	7.30	192.1	1.59	74.3
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	88.8	22.5	21.1	6.18	74.7%	76.2%	70.7%	93.0%	7.86	185.7	6.35	167.1	1.51	70.6
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	96	21.4	17	6.24	77.7%	82.3%	63.3%	93.5%	8.68	205.1	7.32	192.6	1.30	60.6
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	98.1	16.5	14.3	26.8	83.2%	85.4%	-87.4%	72.7%	8.96	211.7	7.08	186.2	1.03	48.2
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	81.2	18.7	29.2	32.5	77.0%	64.0%	-11.3%	60.0%	7.32	172.9	6.08	159.9	2.19	102.2
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	101	24.5	22.9		75.7%	77.3%			9.18	217.0	7.51	197.5	1.70	79.6
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	107	27.1	28.2	15.4	74.7%	73.6%	45.4%	85.6%	9.69	228.9	8.01	210.7	2.11	98.7
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	86.6		20.4	18.4		76.4%	9.8%	78.8%	7.84	185.2	6.50	170.9	1.53	71.6
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	104	16.7	15.1	3	83.9%	85.5%	80.1%	97.1%	9.46	223.4	7.81	205.4	1.13	53.0
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	109	23.9	30.8	14.5	78.1%	71.7%	52.9%	86.7%	9.83	232.2	8.19	215.4	2.31	108.2
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	96.9	33.1	21.5	41.9	65.8%	77.8%	-94.9%	56.8%	8.73	206.3	6.13	161.3	1.36	63.6
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	102	22.4	10.4	7.14	78.0%	89.8%	31.3%	93.0%	9.27	219.1	7.88	207.2	0.80	37.6
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	128	33.3	12.3		74.0%	90.4%			11.33	267.7	9.56	251.6	0.92	43.0
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	112	23	10.5	10.2	79.5%	90.6%	2.9%	90.9%	9.83	232.1	8.68	228.4	0.81	38.1
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	100	20.3	12.3	10.1	79.7%	87.7%	17.9%	89.9%	6.01	142.0	5.97	157.1	0.73	34.4
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22														
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	105	29.9	12.9	6.81	71.5%	87.7%	47.2%	93.5%	9.46	223.6	6.45	169.6	0.79	37.0
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	123	37.7	18.3	7.35	69.3%	85.1%	59.8%	94.0%	10.35	244.5	9.20	242.0	1.37	64.0
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	84.1	27.5	13.1	12.7	67.3%	84.4%	3.1%	84.9%	7.61	179.9	4.71	123.8	0.73	34.3
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	113	39.4	36.8	27.8	65.1%	67.4%	24.5%	75.4%	10.17	240.3	8.55	224.9	2.78	130.2
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	119	38.2	16.3		67.9%	86.3%			10.72	253.2	9.72	255.6	1.33	62.2
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	98.7	31.7	19.7		67.9%	80.0%			7.12	168.1	7.13	187.6	1.42	66.6
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	113	41	23.2		63.7%	79.5%			10.14	239.5	8.31	218.6	1.71	79.8
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	109		19.8			81.8%			9.88	233.5	8.76	230.5	1.59	74.4
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81														
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	114	27.5	24.3		75.9%	78.7%			10.32	243.8	8.43	221.8	1.80	84.0
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	132	30.5	27		76.9%	79.5%			11.85	280.0	9.67	254.3	1.98	92.5
Week 1 & 2 Average			8.69	7.81		2.77	4.42	94.7		20.3	>33.16		77.7%	-105.9%	62.3%			9.89	260.1	2.11	98.9
Week 1 & 2 Min			8.24	7.17		2.62	4.06	67.9		13.5	15.1		67.1%	-252.6%	48.8%			7.06	185.7	1.45	68.0
Week 1 & 2Max			8.96	8.19		2.85	4.63	122.0		30.6	47.6		86.6%	50.7%	83.8%			12.89	339.0	3.22	150.8
Week 3 & 4 Average			8.14	5.85		2.59	3.31	93.9		17.0	38.24		82.0%	-140.8%	58.3%			9.17	241.34	1.66	77.5
Week 3 & 4 Min			7.86	3.46		2.50	1.96	80.6		12.0	26.20		75.6%	-265.8%	48.6%			7.80	205.20	1.18	55.2
Week 3 & 4 Max			8.26	7.30		2.63	4.13	114.0		24.4	43.90		86.1%	-37.2%	77.0%			11.14	293.00	2.30	107.7
Week 5 & 6 Average		8.88	7.52	6.41	2.04	2.40	3.63	85.4	19.3	17.4	16.9	77.9%	80.2%	-14.7%	79.1%	8.99	212.32	7.68	202.09	1.55	72.72
Week 5 & 6 Min		8.23	6.60	5.63	1.79	2.10	3.19	67.1	12.3	11.0	6.8	74.2%	72.9%	-221.6%	46.8%	7.26	171.46	6.32	166.31	1.05	48.91
Week 5 & 6 Max		9.40	8.07	7.08	2.19	2.57	4.00	108.0	22.9	23.2	35.7	85.1%	86.1%	70.9%	93.1%	10.67	252.20	8.57	225.34	2.09	97.92
Week 7-14 Average		7.18	6.10	4.61	1.94	1.94	2.61	104.5	27.6	19.9	15.2	73.8%	80.7%	21.3%	84.4%	9.12	215.55	7.65	201.30	1.46	68.36
Week 7- 14 Min		4.93	4.66	1.43	1.33	1.48	0.81	81.2	16.5	10.4	3.0	63.7%	64.0%	-94.9%	56.8%	6.01	141.96	4.71	123.81	0.73	34.28
Week 7-14 Max		7.60	6.80	5.99	2.05	2.16	3.39	132.0	41.0	36.8	41.9	83.9%	90.6%	80.1%	97.1%	11.85	279.95	9.72	255.63	2.78	130.23

Values reported as less than (<) values are entered as a numeric value equal to half the detection level (ex. <7 is reported as 3.5) - colored boxes

Reported value was indicated as "greater than" the value shown.

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft

	Comp Sample	Flow (gpm)			Flow (gpm/SF)			SBOD Concentration (mg/L)				Percent Removal			
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	13-BSEff	Biofor C	Biofor N	2-Stage
1	24-Feb-04		8.65	8.19		2.75	4.63	57.9		7.71	3.00		86.7%	61.1%	94.8%
1	28-Feb-04		8.77	7.70		2.79	4.36	56.2		13.2	7.32		76.5%	44.5%	87.0%
2	1-Mar-04		8.24	7.17		2.62	4.06	71.3		12.6	22.6		82.3%	-79.4%	68.3%
2	3-Mar-04		8.72	7.81		2.78	4.42	76.7		10.2	35.5		86.7%	-248.0%	53.7%
2	5-Mar-04		8.96	8.13		2.85	4.60	67.9		6.82	46.3		90.0%	-578.9%	31.8%
2	7-Mar-04		8.79	7.86		2.80	4.45	86.2		8.84	45.1		89.7%	-410.2%	47.7%
3	9-Mar-04		8.23	7.30		2.62	4.13	68.3		9.54	43.1		86.0%	-351.8%	36.9%
3	11-Mar-04		8.18	6.99		2.60	3.96	72.9		7.13	36.6		90.2%	-413.3%	49.8%
3	13-Mar-04		8.24	6.35		2.62	3.59	65.4		8.13	21.4		87.6%	-163.2%	67.3%
4	15-Mar-04		8.26	3.46		2.63	1.96	75.4		8.7	21.3		88.5%	-144.8%	71.8%
4	17-Mar-04		8.05	7.17		2.56	4.06	64.8		7.44	29.6		88.5%	-297.8%	54.3%
4	19-Mar-04		7.86	4.93		2.50	2.79	71.6		8.12	17		88.7%	-109.4%	76.3%
4	21-Mar-04		8.13	4.77		2.59	2.70	74.4		10.6	19		85.8%	-79.2%	74.5%
5	23-Mar-04	9.00	8.00	6.61	2.44	2.54	3.74	68.9	5.4	9.62	10.6	92.2%	86.0%	-10.2%	84.6%
5	25-Mar-04	9.00	7.84	6.80	2.44	2.50	3.85	55.2	4.97	6.05	28.7	91.0%	89.0%	-374.4%	48.0%
5	27-Mar-04	9.00	7.27	7.08	2.44	2.31	4.00	62.9	4.89	6	11.4	92.2%	90.5%	-90.0%	81.9%
6	29-Mar-04	9.00	8.07	6.18	2.44	2.57	3.50	60.7	5.84	4.82	7.59	90.4%	92.1%	-57.5%	87.5%
6	31-Mar-04	8.50	7.51	6.03	2.31	2.39	3.41	64.7	5.43	9.61	3.00	91.6%	85.1%	68.8%	95.4%
6	2-Apr-04	9.40	7.39	6.52	2.55	2.35	3.69		5.66	9.56	7.02			26.6%	
6	4-Apr-04	8.23	6.60	5.63	2.23	2.10	3.19	73.9	7.86	9.07	3.00	89.4%	87.7%	66.9%	95.9%
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	63.6	5.49	7.8	6.12	91.4%	87.7%	21.5%	90.4%
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	63.3	4.11	6.93	3.00	93.5%	89.1%	56.7%	95.3%
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	63.6	4.31	5.34	3.00	93.2%	91.6%	43.8%	95.3%
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	66.9	4.26	6	8.61	93.6%	91.0%	-43.5%	87.1%
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	57.5	6.85	19.6	23.1	88.1%	65.9%	-17.9%	59.8%
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	65	9.5	6.58		85.4%	89.9%		
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	70.1	13.4	12.1	9.72	80.9%	82.7%	19.7%	86.1%
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	62.2		9.63			84.5%		
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	77.9	6.15	5.72	3.00	92.1%	92.7%	47.6%	96.1%
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	64.4	11.3	11.4	6.18	82.5%	82.3%	45.8%	90.4%
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	62.6	10.3	8.2	32.6	83.5%	86.9%	-297.6%	47.9%
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	67.9	11.4	6.68	3.00	83.2%	90.2%	55.1%	95.6%
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	64.5	5.7	8.5		91.2%	86.8%		
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	75.8	14.5	8.55	6.33	80.9%	88.7%	26.0%	91.6%
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	63.7	7.8	8.75	6.06	87.8%	86.3%	30.7%	90.5%
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22								
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	66.5	8.71	8.41	3.00	86.9%	87.4%	64.3%	95.5%
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	84.4	12	11	3.00	85.8%	87.0%	72.7%	96.4%
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	67	9.29	8.26	6.66	86.1%	87.7%	19.4%	90.1%
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	75.2	7.99	16.6	8.94	89.4%	77.9%	46.1%	88.1%
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	69.5	10.9	9.97		84.3%	85.7%		
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	78.3	10.9	15.5		86.1%	80.2%		
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	88.6	11.9	16		86.6%	81.9%		
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	76.3		10.4			86.4%		
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81								
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	81.6	13.4	16.1		83.6%	80.3%		
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	90.1	10.2	16.8		88.7%	81.4%		
Week 1 & 2 Average			8.69	7.81		2.77	4.42	69.4		9.9	26.6		85.3%	-201.8%	63.9%
Week 1 & 2 Min			8.24	7.17		2.62	4.06	56.2		6.8	3.0		76.5%	-578.9%	31.8%
Week 1 & 2Max			8.96	8.19		2.85	4.63	86.2		13.2	46.3		90.0%	61.1%	94.8%
Week 3 & 4 Average			8.14	5.85		2.59	3.31	70.4		8.5	26.9		87.9%	-222.8%	61.5%
Week 3 & 4 Min			7.86	3.46		2.50	1.96	64.8		7.1	21.4		85.8%	-413.3%	36.9%
Week 3 & 4 Max			8.26	7.30		2.63	4.13	75.4		10.6	43.1		90.2%	-79.2%	76.3%
Week 5 & 6 Average		8.88	7.52	6.41	2.41	2.40	3.63	64.4	5.7	7.8	10.2	91.1%	88.4%	-52.8%	82.2%
Week 5 & 6 Min		8.23	6.60	5.63	2.23	2.10	3.19	55.2	4.9	4.8	3.0	89.4%	85.1%	-374.4%	48.0%
Week 5 & 6 Max		9.40	8.07	7.08	2.55	2.57	4.00	73.9	7.9	9.6	28.7	92.2%	92.1%	68.8%	95.9%
Week 7-14 Average		7.18	6.10	4.61	1.94	1.94	2.61	70.7	9.1	10.4	8.3	87.2%	85.3%	11.9%	87.3%
Week 7- 14 Min		4.93	4.66	1.43	1.33	1.48	0.81	57.5	4.1	5.3	3.0	80.9%	65.9%	-297.6%	47.9%
Week 7-14 Max		7.60	6.80	5.99	2.05	2.16	3.39	90.1	14.5	19.6	32.6	93.6%	92.7%	72.7%	96.4%

Value reported as less than (<); value shown equal to half the detection level (ex. <7 is reported as 3.5)

Reported value was indicated as "greater than" the value shown.

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft

	Comp Sample	Flow (gpm)			Flow (gpm/SF)			CBOD Concentration (mg/L) [a]				Percent Removal				CBOD Loading - BS		CBOD Loading - BFC		CBOD Loading - BFN	
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage	lb/d	lb/d/kcf	lb/d	lb/d/kcf	lb/d	lb/d/kcf
1	23-Feb-04		6.55	6.91		2.08	3.91	88.0		10.6	8.12		88.0%	23.4%	90.8%			6.93	182.2	0.83	39.0
1	25-Feb-04		8.14	7.90		2.59	4.47	61.7		3.6	2.0		94.2%	42.8%	96.7%			6.04	158.8	0.35	16.3
1	27-Feb-04		8.65	8.28		2.75	4.68	87.5		14.8	3		83.1%	79.7%	96.6%			9.10	239.4	1.54	72.0
1	29-Feb-04		9.00	7.00		2.86	3.96	96.4		18.5	6.69		80.8%	63.8%	93.1%			10.42	274.1	2.00	93.5
2	2-Mar-04		8.70	7.57		2.77	4.28	68.4		13.9	6.72		79.7%	51.7%	90.2%			7.15	188.1	1.45	67.9
2	4-Mar-04		8.86	8.42		2.82	4.76	80.3		10.7	7.07		86.7%	33.9%	91.2%			8.55	224.9	1.14	53.3
2	6-Mar-04		8.99	8.06		2.86	4.56	85.9		13.1	16.2		84.7%	-23.7%	81.1%			9.28	244.1	1.42	66.2
3	8-Mar-04		7.78	8.06		2.48	4.56	105		19.5	21.8		81.4%	-11.8%	79.2%			9.82	258.2	1.82	85.3
3	10-Mar-04		7.91	7.11		2.52	4.02	89.7		12.5	16.2		86.1%	-29.6%	81.9%			8.53	224.3	1.19	55.6
3	12-Mar-04		7.85	7.86		2.50	4.45	95.5		12.3	8.7		87.1%	29.3%	90.9%			9.01	237.0	1.16	54.3
3	14-Mar-04		8.20	6.66		2.61	3.77	93.5		9.6	6.82		89.7%	29.0%	92.7%			9.21	242.4	0.95	44.2
4	16-Mar-04		2.05	7.61		0.65	4.31	75.2		10.2	13.3		86.4%	-30.4%	82.3%			1.85	48.7	0.25	11.8
4	18-Mar-04		7.94	7.50		2.53	4.24	93		10.3	7.74		88.9%	24.9%	91.7%			8.87	233.4	0.98	46.0
4	20-Mar-04		7.86	5.45		2.50	3.08	94.2		10.5	6.21		88.9%	40.9%	93.4%			8.90	234.1	0.99	46.4
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	81.7	15.2	6.84	1.5	81.4%	91.6%	78.1%	98.2%	6.92	163.5	7.90	207.7	0.66	30.9
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	65.7	9.53	9.42	3.77	85.5%	85.7%	60.0%	94.3%	7.08	167.3	6.61	173.8	0.95	44.3
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	75	10.2	9.23	4.05	86.4%	87.7%	56.1%	94.6%	8.17	193.1	6.74	177.2	0.83	38.8
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	77.1	8.7	7.19	1.5	88.7%	90.7%	79.1%	98.1%	8.34	197.0	7.49	196.9	0.70	32.7
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	70.4	8.8	8.44	6.42	87.5%	88.0%	23.9%	90.9%	8.38	197.9	6.69	175.9	0.80	37.5
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	84.8	8.83	9.82	3.33	89.6%	88.4%	66.1%	96.1%	8.36	197.4	7.51	197.6	0.87	40.7
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	93.3	8.4	9.39	3.2	91.0%	89.9%	65.9%	96.6%	10.09	238.4	8.83	232.2	0.89	41.6
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	91.7	8.87	9.28	3.92	90.3%	89.9%	57.8%	95.7%	6.21	146.7	6.70	176.3	0.68	31.7
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93														
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	88.8	11.4	9.87	2.105	87.2%	88.9%	78.7%	97.6%	7.82	184.7	6.77	178.1	0.75	35.2
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	86.6	7.94	8.39	3.29	90.8%	90.3%	60.8%	96.2%	7.83	184.9	6.78	178.4	0.66	30.7
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	65.3	10.5		6.33	83.9%			90.3%	5.83	137.8	4.61	121.2		
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	92.10	6.93	9.02		92.5%	90.2%			5.17	122.0	6.96	183.1	0.68	31.9
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07														
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	83	14.8	7.7	6.03	82.2%	90.7%	21.7%	92.7%	7.64	180.4	6.28	165.3	0.58	27.3
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	89.8	12.7	8.48	2.86	85.9%	90.6%	66.3%	96.8%	8.09	191.2	6.65	174.9	0.63	29.4
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	88.5	10.7	9.45		87.9%	89.3%			7.92	187.1	6.37	167.7	0.68	31.8
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	84.7	10.3	10.4	3.85	87.8%	87.7%	63.0%	95.5%	7.60	179.6	6.81	179.1	0.84	39.1
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	124	23.3	7.22	6.88	81.2%	94.2%	4.7%	94.5%	11.03	260.5	9.52	250.5	0.55	25.9
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	97	19.7	5.91	6.23	79.7%	93.9%	-5.4%	93.6%	8.74	206.5	7.28	191.5	0.44	20.7
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	98.4	16.9	8.63	6.56	82.8%	91.2%	24.0%	93.3%	8.87	209.5	7.27	191.2	0.64	29.8
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	100	15	6.68	6.64	85.0%	93.3%	0.6%	93.4%	9.05	213.9	5.26	138.5	0.35	16.4
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	86.4	11.6	8.61	4.98	86.6%	90.0%	42.2%	94.2%	7.79	184.0	6.54	172.1	0.65	30.5
11	7-May-04	7.55	6.31	5.56	2.04	2.01	3.14	87.2	14.4	9.36	4.63	83.5%	89.3%	50.5%	94.7%	7.91	186.9	6.61	173.9	0.71	33.2
11	9-May-04	7.41	6.08	5.44	2.00	1.93	3.08	77.8	9.96	7.29	4.35	87.2%	90.6%	40.3%	94.4%	6.92	163.6	5.68	149.5	0.53	24.9
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	88.3	11.9	9.75	3.89	86.5%	89.0%	60.1%	95.6%	7.57	178.8	6.35	167.0	0.70	32.8
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	90.9	14.9	15.1	4.45	83.6%	83.4%	70.5%	95.1%	8.12	191.8	5.69	149.7	0.95	44.2
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	95.4	11.3	9.36	4.67	88.2%	90.2%	50.1%	95.1%	8.52	201.3	7.05	185.6	0.69	32.4
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	107	12.6	13.9		88.2%	87.0%			9.09	214.7	7.81	205.5	1.01	47.5
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	87.9	7.62	16.1		91.3%	81.7%			7.92	187.2	6.60	173.7	1.21	56.6
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	107	11.4	18.7		89.3%	82.5%			9.60	226.8	7.20	189.3	1.26	58.8
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	92.9	9.9	12.1		89.3%	87.0%			8.37	197.8	7.10	186.8	0.92	43.3
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	83.1	9.76	19.4		88.3%	76.7%			7.49	177.0	3.70	97.3	0.86	40.4
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	113	12.7	20.6		88.8%	81.8%			8.10	191.4	8.48	223.2	1.55	72.3
Week 1 & 2 Average			8.41	7.73		2.68	4.38	81.17		12.17	7.12		85.3%	38.8%	91.4%			8.21	215.94	1.25	58.32
Week 1 & 2 Min			6.55	6.91		2.08	3.91	61.70		3.56	2.04		79.7%	-23.7%	81.1%			6.04	158.77	0.35	16.29
Week 1 & 2Max			9.00	8.42		2.86	4.76	96.40		18.50	16.20		94.2%	79.7%	96.7%			10.42	274.13	2.00	93.52
Week 3 & 4 Average			7.08	7.18		2.25	4.06	92.30		12.13	11.54		86.9%	7.5%	87.5%			8.03	211.17	1.05	49.06
Week 3 & 4 Min			2.05	5.45		0.65	3.08	75.20		9.60	6.21		81.4%	-30.4%	79.2%			1.85	48.74	0.25	11.75
Week 3 & 4 Max			8.20	8.06		2.61	4.56	105.00		19.50	21.80		89.7%	40.9%	93.4%			9.82	258.25	1.82	85.26
Week 5 & 6 Average		8.74	7.87	6.49	2.36	2.51	3.67	78.3	9.95	8.62	3.40	87.2%	88.9%	61.3%	95.5%	8.19	193.51	7.39	194.49	0.81	38.05
Week 5 & 6 Min		7.05	7.37	4.72	1.91	2.35	2.67	65.7	8.40	6.84	1.50	81.4%	85.7%	23.9%	90.9%	6.92	163.53	6.61	173.84	0.66	30.92
Week 5 & 6 Max		9.90	8.37	7.09	2.68	2.66	4.01	93.3	15.20	9.82	6.42	91.0%	91.6%	79.1%	98.2%	10.09	238.40	8.83	232.23	0.95	44.31
Week 7-14 Average		7.19	6.01	4.61	1.94	1.91	2.61	92.3	12.28	10.89	4.80	86.7%	88.3%	42.9%	94.6%	7.97	188.25	6.64	174.77	0.77	36.11
Week 7- 14 Min		4.67	3.71	0.60	1.26	1.18	0.34	65.3	6.93	5.91	2.11	79.7%	76.7%	-5.4%	90.3%	5.17	122.03	3.70	97.33	0.35	16.44
Week 7-14 Max		7.66	6.69	6.24	2.07	2.13	3.53	124.0	23.30	20.60	6.88	92.5%	94.2%	78.7%	97.6%	11.03	260.52	9.52	250.49	1.55	72.32

(a) Values reported as less than (<) values are entered as a numeric value equal to half the detection level (ex. <7 is reported as 3.5) - colored boxes

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft

	Comp Sample	Flow (gpm)			Flow (gpm/SF)			SCBOD Concentration (mg/L) [a]				Percent Removal			
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage
1	23-Feb-04		6.55	6.91		2.08	3.91	62.5		4.66	2.105		92.5%	54.8%	96.6%
1	25-Feb-04		8.14	7.90		2.59	4.47	56.2		2.4	2.4		95.8%	0.0%	95.8%
1	27-Feb-04		8.65	8.28		2.75	4.68	60.6		6.21	3		89.8%	51.7%	95.0%
1	29-Feb-04		9.00	7.00		2.86	3.96	77.5		9.29	4.23		88.0%	54.5%	94.5%
2	2-Mar-04		8.70	7.57		2.77	4.28	60.6		8.26	4.13		86.4%	50.0%	93.2%
2	4-Mar-04		8.86	8.42		2.82	4.76	64.3		6.81	4.82		89.4%	29.2%	92.5%
2	6-Mar-04		8.99	8.06		2.86	4.56	71.5		7.05	7.87		90.1%	-11.6%	89.0%
3	8-Mar-04		7.78	8.06		2.48	4.56	78.6		10.7	13.9		86.4%	-29.9%	82.3%
3	10-Mar-04		7.91	7.11		2.52	4.02	72.7		7.45	14.6		89.8%	-96.0%	79.9%
3	12-Mar-04		7.85	7.86		2.50	4.45	73.2		5.84	5.96		92.0%	-2.1%	91.9%
4	14-Mar-04		8.20	6.66		2.61	3.77	76.5		6.21	4.73		91.9%	23.8%	93.8%
4	16-Mar-04		2.05	7.61		0.65	4.31	66.1		7.04	11.6		89.3%	-64.8%	82.5%
4	18-Mar-04		7.94	7.50		2.53	4.24	62.4		4.9	4.68		92.1%	4.5%	92.5%
4	20-Mar-04		7.86	5.45		2.50	3.08	65.7		5.13	3.27		92.2%	36.3%	95.0%
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	73.7	6.0	6.53	1.5	91.9%	91.1%	77.0%	98.0%
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	51.5	4.73	5.66	1.5	90.8%	89.0%	73.5%	97.1%
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	54.7	3.71	4.47	1.5	93.2%	91.8%	66.4%	97.3%
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	61	4.29	4.49	1.5	93.0%	92.6%	66.6%	97.5%
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	56.5	3.68	5.22	1.5	93.5%	90.8%	71.3%	97.3%
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	58.7	3.14	5.81	1.5	94.7%	90.1%	74.2%	97.4%
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	62	3.02	5.82	3	95.1%	90.6%	48.5%	95.2%
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	65.7	1.5	4.5	ND	97.7%	93.2%		
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93								
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	64	5.33	5.36	ND	91.7%	91.6%		
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	62.1	1.5	4.14	ND	97.6%	93.3%		
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	47.8	5.33		3.13	88.8%			93.5%
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	62.1	1.5	4.49		97.6%	92.8%		
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07								
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	57.3	8.37	4.57	3.68	85.4%	92.0%	19.5%	93.6%
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	63.8	6.93	5.53	ND	89.1%	91.3%		
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	63.8	5.88	6.18		90.8%	90.3%		
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	58.8	5.79	7.05	3.65	90.2%	88.0%	48.2%	93.8%
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	25	16	5.45	5.88	36.0%	78.2%	-7.9%	76.5%
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	54	10.8	4.22	4.82	80.0%	92.2%	-14.2%	91.1%
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	60.8	12.8	6.03	4.5	78.9%	90.1%	25.4%	92.6%
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	73.8	9.99	4.74	4.27	86.5%	93.6%	9.9%	94.2%
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	62.5	6.93	4.58	3.38	88.9%	92.7%	26.2%	94.6%
11	7-May-04	7.55	6.31	5.56	2.04	2.01	3.14	54.9	4.78	6.2	2.77	91.3%	88.7%	55.3%	95.0%
11	9-May-04	7.41	6.08	5.44	2.00	1.93	3.08	57.3	6.17	5.12	2.03	89.2%	91.1%	60.4%	96.5%
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	65.1	5.87	6.67	4.12	91.0%	89.8%	38.2%	93.7%
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	65.1	5.4	10.3	2.08	91.7%	84.2%	79.8%	96.8%
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	62.6	5.18	6.35	ND	91.7%	89.9%		
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	71.2	4.35	7.62		93.9%	89.3%		
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	67.4	6.06	14.8		91.0%	78.0%		
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	83.1	5.87	12.5		92.9%	85.0%		
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	64.3	5.73	7.52		91.1%	88.3%		
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	85.1	5.67	13		93.3%	84.7%		
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	81.7	6.29	13.4		92.3%	83.6%		
Week 1 & 2 Average			8.41	7.73		2.68	4.38	64.74		6.38	4.07		90.3%	32.7%	93.8%
Week 1 & 2 Min			6.55	6.91		2.08	3.91	56.20		2.36	2.11		86.4%	-11.6%	89.0%
Week 1 & 2Max			9.00	8.42		2.86	4.76	77.50		9.29	7.87		95.8%	54.8%	96.6%
Week 3 & 4 Average			7.08	7.18		2.25	4.06	70.74		6.75	8.39		90.5%	-18.3%	88.3%
Week 3 & 4 Min			2.05	5.45		0.65	3.08	62.40		4.90	3.27		86.4%	-96.0%	79.9%
Week 3 & 4 Max			8.20	8.06		2.61	4.56	78.60		10.70	14.60		92.2%	36.3%	95.0%
Week 5 & 6 Average		8.74	7.87	6.49	2.36	2.51	3.67	59.73	4.08	5.43	1.71	93.2%	90.9%	68.2%	97.1%
Week 5 & 6 Min		7.05	7.37	4.72	1.91	2.35	2.67	51.50	3.02	4.47	1.50	90.8%	89.0%	48.5%	95.2%
Week 5 & 6 Max		9.90	8.37	7.09	2.68	2.66	4.01	73.70	6.00	6.53	3.00	95.1%	92.6%	77.0%	98.0%
Week 7-14 Average		7.19	6.01	4.61	1.94	1.91	2.61	63.17	6.40	7.10	3.69	88.3%	88.8%	31.0%	92.6%
Week 7- 14 Min		4.67	3.71	0.60	1.26	1.18	0.34	25.00	1.50	4.14	2.03	36.0%	78.0%	-14.2%	76.5%
Week 7-14 Max		7.66	6.69	6.24	2.07	2.13	3.53	85.10	16.00	14.80	5.88	97.7%	93.6%	79.8%	96.8%

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft

	Comp Sample	Flow (gpm)				Flow (gpm/SF)		COD Concentration (mg/L)				Percent Removal				COD Loading - BS		COD Loading - BFC		COD Loading - BFN	
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage	lb/d	lb/d/kcf	lb/d	lb/d/kcf	lb/d	lb/d/kcf
1	23-Feb-04		6.55	6.91		2.08	3.91	229		129	41		43.7%	68.2%	82.1%			18.0	474	10.2	475
1	24-Feb-04		8.65	8.19		2.75	4.63	256		117	95		54.3%	18.8%	62.9%			26.6	700	12.2	569
1	25-Feb-04		8.14	7.90		2.59	4.47	260		108	108		58.5%	0.0%	58.5%			25.4	669	10.6	494
1	27-Feb-04		8.65	8.28		2.75	4.68	200		88	68		56.0%	22.7%	66.0%			20.8	547	9.2	428
1	28-Feb-04		8.77	7.70		2.79	4.36	222		86	56		61.3%	34.9%	74.8%			23.4	615	9.1	424
1	29-Feb-04		9.00	7.00		2.86	3.96	229		86	23		62.4%	73.3%	90.0%			24.8	651	9.3	435
2	1-Mar-04		8.24	7.17		2.62	4.06	204		74	53		63.7%	28.4%	74.0%			20.2	531	7.3	343
2	2-Mar-04		8.70	7.57		2.77	4.28	203		72	56		64.5%	22.2%	72.4%			21.2	558	7.5	352
2	3-Mar-04		8.72	7.81		2.78	4.42	242		79	60		67.4%	24.1%	75.2%			25.4	667	8.3	387
2	4-Mar-04		8.86	8.42		2.82	4.76	224		83	67		62.9%	19.3%	70.1%			23.8	627	8.8	413
2	5-Mar-04		8.96	8.13		2.85	4.60	233		58	51		75.1%	12.1%	78.1%			25.1	660	6.2	292
2	6-Mar-04		8.99	8.06		2.86	4.56	233		74	61		68.2%	17.6%	73.8%			25.2	662	8.0	374
2	7-Mar-04		8.79	7.86		2.80	4.45	249		85	66		65.9%	22.4%	73.5%			26.3	692	9.0	420
3	8-Mar-04		7.78	8.06		2.48	4.56	240		96	64		60.0%	33.3%	73.3%			22.4	591	9.0	420
3	9-Mar-04		8.23	7.30		2.62	4.13	233		85	64		63.5%	24.7%	72.5%			23.1	606	8.4	393
3	10-Mar-04		7.91	7.11		2.52	4.02	253		90	66		64.4%	26.7%	73.9%			24.0	633	8.6	400
3	11-Mar-04		8.18	6.99		2.60	3.96	253		77	66		69.6%	14.3%	73.9%			24.9	654	7.6	354
3	12-Mar-04		7.85	7.86		2.50	4.45	173	57.5	58	58		66.8%	-0.9%	66.5%			16.3	430	5.4	254
3	13-Mar-04		8.24	6.35		2.62	3.59	262		69	58		73.7%	15.9%	77.9%			25.9	682	6.8	319
3	14-Mar-04		8.20	6.66		2.61	3.77	221		56	56		74.7%	0.0%	74.7%			21.8	573	5.5	258
4	15-Mar-04		8.26	3.46		2.63	1.96	239		69	59		71.1%	14.5%	75.3%			23.7	624	6.8	320
4	16-Mar-04		2.05	7.61		0.65	4.31	226		64	59		71.7%	7.8%	73.9%			5.6	147	1.6	74
4	17-Mar-04		8.05	7.17		2.56	4.06	238		61	40		74.4%	34.4%	83.2%			23.0	606	5.9	276
4	18-Mar-04		7.94	7.50		2.53	4.24	235		61.5	53		73.8%	13.8%	77.4%			22.4	590	5.9	275
4	19-Mar-04		7.86	4.93		2.50	2.79	149		55	35		63.1%	36.4%	76.5%			14.1	370	5.2	243
4	20-Mar-04		7.86	5.45		2.50	3.09	166		29	42		82.5%	-44.8%	74.7%			15.7	413	2.7	128
4	21-Mar-04		8.13	4.77		2.59	2.70	178		58	36		67.4%	37.9%	79.8%			17.4	457	5.7	265
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	168	66	57	35	60.7%	66.1%	38.6%	79.2%	14.2	336	16.2	427	5.5	258
5	23-Mar-04	9.00	8.00	6.61	2.43	2.54	3.74	161	69	68	33	57.1%	57.8%	51.5%	79.5%	17.4	411	15.5	407	6.5	306
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	166	66	64	43	60.2%	61.4%	32.8%	74.1%	17.9	423	16.7	439	6.4	301
5	25-Mar-04	9.00	7.84	6.80	2.43	2.50	3.85	163	101	45	32	38.0%	72.4%	28.9%	80.4%	17.6	417	15.4	404	4.2	198
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	149	62	48	32.5	58.4%	67.8%	32.3%	78.2%	16.2	384	13.4	352	4.3	202
5	27-Mar-04	9.00	7.27	7.08	2.43	2.31	4.00														
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	172	55	49	33	68.0%	71.5%	32.7%	80.8%	18.6	440	16.7	439	4.8	223
6	29-Mar-04	9.00	8.07	6.18	2.43	2.57	3.50	156	70	46	30	55.1%	70.5%	34.8%	80.8%	16.9	399	15.1	398	4.5	209
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	159	59	52	33	62.9%	67.3%	36.5%	79.2%	18.9	447	15.1	397	4.9	231
6	31-Mar-04	8.50	7.51	6.03	2.30	2.39	3.41	168	61	56	32	63.7%	66.7%	42.9%	81.0%	17.2	405	15.2	399	5.1	236
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	191	63	53	35	67.0%	72.3%	34.0%	81.7%	18.8	445	16.9	445	4.7	220
6	2-Apr-04	9.40	7.39	6.52	2.54	2.35	3.69		65	56	38.5			31.3%		0.0	0	0.0	0	5.0	233
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	192	65	58	36	66.1%	69.8%	37.9%	81.3%	20.8	491	18.2	478	5.5	257
6	4-Apr-04	8.23	6.60	5.63	2.22	2.10	3.19	199	54	69	36	72.9%	65.3%	47.8%	81.9%	19.7	465	15.8	415	5.5	256
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	178	66	53	34	62.9%	70.2%	35.8%	80.9%	12.1	285	13.0	342	3.9	181
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	184	64	54	31	65.2%	70.7%	42.6%	83.2%	13.0	306	14.6	385	4.3	201
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93	163	62	57	34	62.0%	65.0%	40.4%	79.1%	13.0	307	12.4	325	4.3	202
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	189	62	58	33	67.2%	69.3%	43.1%	82.5%	16.7	395	13.5	356	4.1	194
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	203	61	60	38	70.0%	70.4%	36.7%	81.3%	17.9	422	15.5	407	4.6	214
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	176	56	54	32	68.2%	69.3%	40.7%	81.8%	15.9	376	13.4	353	4.1	193
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	189	53	51	37	72.0%	73.0%	27.5%	80.4%	17.1	403	14.8	389	4.0	187
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	171	63	56	36.5	63.2%	67.3%	34.8%	78.7%	15.6	369	12.3	325	4.0	189
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	188	62	104	45	67.0%	44.7%	56.7%	76.1%	16.8	397	13.3	349	7.3	343
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	196	62	105	74	68.4%	46.4%	29.5%	62.2%	17.7	417	14.7	386	7.9	368
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	218	59	59		72.9%	72.9%			12.2	289	16.5	433	4.5	209
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	187	62	61		66.8%	67.4%			17.0	402	13.9	366	4.5	212
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07	197	64	51		67.5%	74.1%			17.8	419	14.9	392	3.9	180
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	192	61	49	42.5	68.2%	74.5%	13.3%	77.9%	17.4	411	14.4	378	3.7	172
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	182	62	48	44.5	65.9%	73.6%	7.3%	75.5%	16.7	396	13.8	362	3.6	170
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	191	75	52	40	60.7%	72.8%	23.1%	79.1%	17.3	409	14.3	377	3.9	182
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	201	72	58	47	64.2%	71.1%	19.0%	76.6%	18.1	428	14.9	391	4.3	201
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	206	64	49	29	68.9%	76.2%	40.8%	85.9%	18.7	443	15.5	407	3.7	172
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	197	70	56		64.5%	71.6%			17.6	417	14.2	373	4.0	189
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	184	57	56	33	69.0%	69.6%	41.1%	82.1%	16.6	392	13.8	364	4.2	197
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	174	55	56	34	68.4%	67.8%	39.3%	80.5%	15.6	369	14.0	368	4.5	211
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	192	67	76	34.5	65.1%	60.4%	54.6%	82.0%	17.3	409	12.2	320	4.8	225
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	387	95	51	38	75.5%	86.8%	25.5%	90.2%	34.4	813	29.7	782	3.9	183
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	215	63	48	35	70.7%	77.7%	27.1%	83.7%	19.6	462	16.6	437	3.7	173
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	271	72	48	36	73.4%	82.3%	25.0%	86.7%	24.4	577	20.3	535	3.6	168
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	241	75	51	36	68.9%	78.8%	29.4%	85.1%	21.3	504	18.0	474	3.8	178
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	231	67	55	37	71.0%	76.2%	32.7%	84.0%	20.8	492	17.1	449	4.1	190
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	213	70	47	36	67.1%	77.9%	23.4%	83.1%	18.7	441	16.5	434	3.6	170
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	207	68	49	41.5	67.1%	76.3%	15.3%	80.0%	18.7	443	10.9	287	2.6	121
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	194	67	52	38	65.5%	73.2%	26.9%	80.4%	11.7	275	11.6	305	3.1	145
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	218	65	63	42	70.2%	71.1%	33.3%	80.7%	19.6	464	16.5	434	4.8	223
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22		84.5	59	41			30.5%						4.5	210
11	7-May-04	7.53	6.28	5.37	2.04	2.00	3.04	193	93	54	36.5	51.8%	72.0%	32.4%	81.1%	17.5	413	14.6	383	4.1	191
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	183	61	47	33	66.7%	74.3%	29.8%	82.0%	16.5	390	11.2	296	2.9	135
11	9-May-04	7.41	6.19	5.44	2.00	1.97	3.08	182	56	49	37	69.2%	73.1%	24.5%	79.7%	16.2	383	13.5	356	3.6	171
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	219	74	55	31	66.2%	74.9%	43.6%	85.8%	18.4	435	16.4	431	4.1	192
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	210	72	56	40	65.7%	73.3%	28.6%	81.0%	18.0	425	15.1	397	4.0	188
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	192	72	51	36	62.5%	73.4%	29.4%	81.3%	17.4	411	10.7	283	2.9	133
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	180	72	65	37	60.0%	63.9%	43.1%	79.4%	16.1	380	11.3	296	4.1	190
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	204	63	89	50	69.1%	56.4%	43.8%	75.5%	18.4	434	15.4	406	6.7	315
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	184	60	47	37	67.4%	74.5%	21.3%	79.9%	16.4	388	13.6	358	3.5	163
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	239	64	57		73.2%	76.2%			21.5	509	19.5	513	4.7	218
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	239	80	66.5		66.5%	72.2%			20.3	480	17.4	459	4.9	227
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	254	74	76		70.9%	70.1%			18.3	433	18.4	483	5.5	257
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	258	66	82		74.4%	68.2%			23.3	549	19.4	510	6.2	288
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	229	67	78		70.7%	65.9%			20.5	485	16.8	443	5.7	268
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	209	68	66		67.5%	68.4%			18.8	443	14.1	370	4.4	208
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	199		60			69.8%			18.0	426	16.0	421	4.8	226
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	200	58	59		71.0%	70.5%			18.0	426	15.3	402	4.5	211
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81	239	64	69		73.2%	71.1%			21.7	512	18.8	496	5.4	254
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	210	64	84		69.5%	60.0%			18.9	447	9.4	246	3.7	175
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	250	66	85		73.6%	66.0%			22.6	535	18.5	486	6.3	294
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	242	67	78		72.3%	67.8%			17.4	410	18.2	478	5.9	274
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	232	70	80		69.8%	65.5%			20.8	492	17.0	447	5.9	274
Week 1 & 2 Average			8.54	7.77		2.72	4.40	233.1		87.5	62.6		62.4%	27.2%	73.2%			23.6	620	8.9	416
Week 1 & 2 Min			6.55	6.91		2.08	3.91	200.0		58.0	23.0		43.7%	0.0%	58.5%			18.0	474	6.2	292
Week 1 & 2Max			9.00	8.42		2.86	4.76	260.0		129.0	108.0		75.1%	73.3%	90.0%			26.6	700	12.2	569
Week 3 & 4 Average			7.61	6.51		2.42	3.69	219.0		66.3	54.0		69.8%	15.3%	75.3%			20.0	527	6.1	284
Week 3 & 4 Min			2.05	3.46		0.65	1.96	149.0		29.0	35.0		60.0%	-44.8%	66.5%			5.6	147	1.6	74
Week 3 & 4 Max			8.26	8.06		2.63	4.56	262.0		96.0	66.0		82.5%	37.9%	83.2%			25.9	682	9.0	420
Week 5 & 6 Average		8.81	7.70	6.45	2.38	2.45	3.65	170.3	65.8	55.5	34.5	60.9%	67.4%	37.1%	79.8%	16.5	389	14.6	389	5.1	241
Week 5 & 6 Min		7.05	6.60	4.72	1.91	2.10	2.67	149.0	54.0	45.0	30.0	38.0%	57.8%	28.9%	74.1%	0.0	0	0.0	0	4.2	198
Week 5 & 6 Max		9.90	8.37	7.09	2.68	2.66	4.01	199.0	101.0	69.0	43.0	72.9%	72.4%	51.5%	81.9%	20.8	491	18.2	478	6.5	306
Week 7-14 Average		7.18	6.06	4.61	1.94	1.93	2.61	209.1	66.7	61.1	38.3	67.9%	70.3%	32.2%	80.7%	18.2	429	15.2	401	4.4	207
Week 7- 14 Min		4.67	3.71	0.60	1.26	1.18	0.34	163.0	53.0	47.0	29.0	51.8%	44.7%	7.3%	62.2%	11.7	275	9.4	246	2.6	121
Week 7-14 Max		7.66	6.80	6.24	2.07	2.16	3.53	387.0	95.0	105.0	74.0	75.5%	86.8%	56.7%	90.2%	34.4	813	29.7	782	7.9	368

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft

Week	Comp Sample	Flow (gpm)			Flow (gpm/SF)			O-PO$_4$ (as P) Concentration (mg/L)				Percent Removal				COD Concentration (mg/L)				Ortho-P : COD Ratio				Total-PO$_4$ (as P) Concentration (mg/L)				Percent Removal			
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage
1	23-Feb-04		6.55	6.91		2.08	3.91	0.044		0.120	0.179		-172.7%	-49.2%	-306.8%	229		129	41	0.0002		0.0009	0.0044								
1	24-Feb-04		8.65	8.19		2.75	4.63	0.051		0.113	0.142		-121.6%	-25.7%	-178.4%	256		117	95	0.0002		0.0010	0.0015								
1	25-Feb-04		8.14	7.90		2.59	4.47	0.109		0.109	0.137		0.0%	-25.7%	-25.7%	260		108	108	0.0004		0.0010	0.0013								
1	27-Feb-04		8.65	8.28		2.75	4.68	0.043		0.042	0.061		2.3%	-45.2%	-41.9%	200		88	68	0.0002		0.0005	0.0009								
1	28-Feb-04		8.77	7.70		2.79	4.36	0.052		0.045	0.057		13.5%	-26.7%	-9.6%	222		86	56	0.0002		0.0005	0.0010								
1	29-Feb-04		9.00	7.00		2.86	3.96	0.051		0.02	0.059		60.8%	-195.0%	-15.7%	229		86	23	0.0002		0.0002	0.0026								
2	1-Mar-04		8.24	7.17		2.62	4.06	0.053		0.036	0.087		32.1%	-141.7%	-64.2%	204		74	53	0.0003		0.0005	0.0016								
2	2-Mar-04		8.70	7.57		2.77	4.28	0.053		0.052	0.079		1.9%	-51.9%	-49.1%	203		72	56	0.0003		0.0007	0.0014								
2	3-Mar-04		8.72	7.81		2.78	4.42	0.104		0.041	0.089		60.6%	-117.1%	14.4%	242		79	60	0.0004		0.0005	0.0015								
2	4-Mar-04		8.86	8.42		2.82	4.76	0.085		0.037	0.072		56.5%	-94.6%	15.3%	224		83	67	0.0004		0.0004	0.0011								
2	5-Mar-04		8.96	8.13		2.85	4.60	0.114		0.055	0.083		51.8%	-50.9%	27.2%	233		58	51	0.0005		0.0009	0.0016								
2	6-Mar-04		8.99	8.06		2.86	4.56	0.133		0.095	0.085		28.6%	10.5%	36.1%	233		74	61	0.0006		0.0013	0.0014								
2	7-Mar-04		8.79	7.86		2.80	4.45	0.253		0.155	0.144		38.7%	7.1%	43.1%	249		85	66	0.0010		0.0018	0.0022								
3	8-Mar-04		7.78	8.06		2.48	4.56	0.165		0.116	0.115		29.7%	0.9%	30.3%	240		96	64	0.0007		0.0012	0.0018								
3	9-Mar-04		8.23	7.30		2.62	4.13	0.248		0.143	0.175		42.3%	-22.4%	29.4%	233		85	64	0.0011		0.0017	0.0027								
3	10-Mar-04		7.91	7.11		2.52	4.02	0.187		0.152	0.203		18.7%	-33.6%	-8.6%	253		90	66	0.0007		0.0017	0.0031								
3	11-Mar-04		8.18	6.99		2.60	3.96	0.188		0.146	0.205		22.3%	-40.4%	-9.0%	253		77	66	0.0007		0.0019	0.0031								
3	12-Mar-04		7.85	7.86		2.50	4.45	0.262		0.185	0.245		29.4%	-32.4%	6.5%	173		57.5	58	0.0015		0.0032	0.0042								
3	13-Mar-04		8.24	6.35		2.62	3.59	0.034		0.154	0.184		-352.9%	-19.5%	-441.2%	262		69	58	0.0001		0.0022	0.0032								
3	14-Mar-04		8.20	6.66		2.61	3.77	0.05		0.117	0.152		-134.0%	-29.9%	-204.0%	221		56	56	0.0002		0.0021	0.0027								
4	15-Mar-04		8.26	3.46		2.63	1.96	0.216		0.186	0.165		13.9%	11.3%	23.6%	239		69	59	0.0009		0.0027	0.0028								
4	16-Mar-04		2.05	7.61		0.65	4.31	0.215		0.116	0.098		46.0%	15.5%	54.4%	226		64	59	0.0010		0.0018	0.0017								
4	17-Mar-04		8.05	7.17		2.56	4.06	0.084		0.141	0.141		-67.9%	0.0%	-67.9%	238		61	40	0.0004		0.0023	0.0035								
4	18-Mar-04		7.94	7.50		2.53	4.24	0.143		0.123	0.123		14.0%	0.0%	14.0%	235		61.5	53	0.0006		0.0020	0.0023								
4	19-Mar-04		7.86	4.93		2.50	2.79	0.103		0.143	0.132		-38.8%	7.7%	-28.2%	149		55	35	0.0007		0.0026	0.0038								
4	20-Mar-04		7.86	5.45		2.50	3.09	0.125		0.127	0.117		-1.6%	7.9%	6.4%	166		29	42	0.0008		0.0044	0.0028								
4	21-Mar-04		8.13	4.77		2.59	2.70	0.1		0.05	0.106		50.0%	-112.0%	-6.0%	178		58	36	0.0006		0.0009	0.0029								
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	0.162	0.065	0.221	0.209	59.9%	-36.4%	5.4%	-29.0%	168	66	57	35	0.0010	0.0010	0.0039	0.0060								
5	23-Mar-04	9.00	8.00	6.61	2.43	2.54	3.74	0.079	0.106	0.202	0.286	-34.2%	-155.7%	-41.6%	-262.0%	161	69	68	33	0.0005	0.0015	0.0030	0.0087								
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	0.161	0.128	0.335	0.295	20.5%	-108.1%	11.9%	-83.2%	166	66	64	43	0.0010	0.0019	0.0052	0.0069	2.48	0.799	0.91	0.54	67.8%	63.3%	40.7%	78.2%
5	25-Mar-04	9.00	7.84	6.80	2.43	2.50	3.85	0.149	0.161	0.262	0.319	-8.1%	-75.8%	-21.8%	-114.1%	163	101	45	32	0.0009	0.0016	0.0058	0.0100	1.89	1.06	0.723	0.515	43.9%	61.7%	28.8%	72.8%
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	0.337	0.156	0.286	0.294	53.7%	15.1%	-2.8%	12.8%																
5	27-Mar-04	9.00	7.27	7.08	2.43	2.31	4.00	0.222	0.138	0.321	0.336	37.8%	-44.6%	-4.7%	-51.4%	149	62	48	32.5	0.0015	0.0022	0.0067	0.0103								
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	0.408	0.13	0.343	0.333	68.1%	15.9%	2.9%	18.4%	172	55	49	33	0.0024	0.0024	0.0070	0.0101								
6	29-Mar-04	9.00	8.07	6.18	2.43	2.57	3.50	0.494	0.197	0.397	0.426	60.1%	19.6%	-7.3%	13.8%	156	70	46	30	0.0032	0.0028	0.0086	0.0142								
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	0.355	0.169	0.369	0.349	52.4%	-3.9%	5.4%	1.7%	159	59	52	33	0.0022	0.0029	0.0071	0.0106								
6	31-Mar-04	8.50	7.51	6.03	2.30	2.39	3.41	0.21	0.189	0.252	0.21	10.0%	-20.0%	16.7%	0.0%	168	61	56	32	0.0013	0.0031	0.0045	0.0066	2.18	0.86	0.72	0.44	60.6%	67.0%	38.9%	79.8%
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	0.407	0.214	0.333	0.25	47.4%	18.2%	24.9%	38.6%	191	63	53	35	0.0021	0.0034	0.0063	0.0071								
6	2-Apr-04	9.40	7.39	6.52	2.54	2.35	3.69		0.186	0.434	0.369			15.0%			65	56	38.5		0.0029	0.0078	0.0096								
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	0.414	0.138	0.638	0.553	66.7%	-54.1%	13.3%	-33.6%	192	65	58	36	0.0022	0.0021	0.0110	0.0154								
6	4-Apr-04	8.23	6.60	5.63	2.22	2.10	3.19	0.441	0.774	0.745	0.647	-75.5%	-68.9%	13.2%	-46.7%	199	54	69	36	0.0022	0.0143	0.0108	0.0180	2.71	1.04	1.59	0.85	61.6%	41.3%	46.5%	68.6%
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	0.58	0.392	0.722	0.717	32.4%	-24.5%	0.7%	-23.6%	178	66	53	34	0.0033	0.0059	0.0136	0.0211								
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	0.411	0.431	0.688	0.718	-4.9%	-67.4%	-4.4%	-74.7%	184	64	54	31	0.0022	0.0067	0.0127	0.0232								
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93	0.505	0.24	0.84	0.774	52.5%	-66.3%	7.9%	-53.3%	163	62	57	34	0.0031	0.0039	0.0147	0.0228	2.22	0.95	1.43	1.07	57.2%	35.6%	25.2%	51.8%
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39									189	62	58	33	0.0000	0.0000	0.0000	0.0000								
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51									203	61	60	38	0.0000	0.0000	0.0000	0.0000								
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	0.387	0.303	0.521	0.53	21.7%	-34.6%	-1.7%	-37.0%	176	56	54	32	0.0022	0.0054	0.0096	0.0166								
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	0.471	0.247	0.539	0.554	47.6%	-14.4%	-2.8%	-17.6%	189	53	51	37	0.0025	0.0047	0.0106	0.0150								
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	0.327	0.294	0.505	0.545	10.1%	-54.4%	-7.9%	-66.7%	171	63	56	36.5	0.0019	0.0047	0.0090	0.0149	2.41	0.89	1.00	0.72	63.1%	58.5%	28.0%	70.1%
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	0.303	0.289	3.48	2.53	4.6%	-1048.5%	27.3%	-735.0%	188	62	104	45	0.0016	0.0047	0.0335	0.0562								
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	0.307	0.302	0.295	2.28	1.6%	3.9%	-672.9%	-642.7%	196	62	105	74	0.0016	0.0049	0.0028	0.0308	2.35	0.9	1.6	2.61	61.7%	31.9%	-63.1%	-11.1%
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	0.667	0.196	0.103		70.6%	84.6%			218	59	59		0.0031	0.0033	0.0017									
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	0.348	0.432	0.197		-24.1%	43.4%			187	62	61		0.0019	0.0070	0.0032									
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07	0.198	0.378	0.181		-90.9%	8.6%			197	64	51		0.0010	0.0059	0.0035									
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	0.262	0.454	0.347	0.269	-73.3%	-32.4%	22.5%	-2.7%	192	61	49	42.5	0.0014	0.0074	0.0071	0.0063								
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	0.22	0.509	0.37	0.159	-131.4%	-68.2%	57.0%	27.7%	182	62	48	44.5	0.0012	0.0082	0.0077	0.0036	1.89	1.53	0.74	0.57	19.0%	60.8%	23.0%	69.8%
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	0.207	0.625	0.276	0.356	-201.9%	-33.3%	-29.0%	-72.0%	191	75	52	40	0.0011	0.0083	0.0053	0.0089								
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	0.295	0.29	0.333	0.277	1.7%	-12.9%	16.8%	6.1%	201	72	58	47	0.0015	0.0040	0.0057	0.0059	2.22	1.05	0.72	0.68	52.7%	67.6%	5.6%	69.4%
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	0.72	0.328	0.374	0.299	54.4%	48.1%	20.1%	58.5%	206	64	49	29	0.0035	0.0051	0.0076	0.0103								
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	0.393	0.326	0.574		17.0%	-46.1%			197	70	56		0.0020	0.0047	0.0103									
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	0.264	0.485	0.619	0.543	-83.7%	-134.5%	12.3%	-105.7%	184	57	56	33	0.0014	0.0085	0.0111	0.0165								
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	0.493	0.328	0.634	0.66	33.5%	-28.6%	-4.1%	-33.9%	174	55	56	34	0.0028	0.0060	0.0113	0.0194								
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	0.294	0.405	0.382	0.475		-29.9%	-24.3%	-61.6%	192	67	76	34.5	0.0015	0.0060	0.0050	0.0138								
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	0.198	0.25	0.448	0.365	-26.3%	-126.3%	18.5%	-84.3%	387	95	51	38	0.0005	0.0026	0.0088	0.0096	3.29	1.16	0.84	0.59	64.7%	74.5%	29.8%	82.1%
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	0.62	0.516	0.501	0.417	16.8%	19.2%	16.8%	32.7%	215	63	48	35	0.0029	0.0082	0.0104	0.0119								
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	0.384	0.53	0.642	0.49	-38.0%	-67.2%	23.7%	-27.6%	271	72	48	36	0.0014	0.0074	0.0134	0.0136	3.39	1.23	0.94	0.67	63.7%	72.3%	28.7%	80.2%
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	0.317	0.421	0.903	0.716	-32.8%	-184.9%	20.7%	-125.9%	241	75	51	36	0.0013	0.0056	0.0177	0.0199								
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	0.497	0.263	0.856	0.753	47.1%	-72.2%	12.0%	-51.5%	231	67	55	37	0.0022	0.0039	0.0156	0.0204								
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	0.609	0.499	0.868	0.83	18.1%	-42.5%	4.4%	-36.3%	213	70	47	36	0.0029	0.0071	0.0185	0.0231								
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	0.777	0.646	0.896	0.827	16.9%	-15.3%	7.7%	-6.4%	207	68	49	41.5	0.0038	0.0095	0.0183	0.0199	2.25	1.38	1.31	1.13	38.7%	41.8%	13.7%	49.8%
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	0.368	0.601	0.635	0.594	-63.3%	-72.6%	6.5%	-61.4%	194	67	52	38	0.0019	0.0090	0.0122	0.0156								
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	0.65	0.699	0.777	0.67	-7.5%	-19.5%	13.8%	-3.1%	218	65	63	42	0.0030	0.0108	0.0123	0.0160	2.64	1.37	1.7	0.93	48.1%	35.6%	45.3%	64.8%
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22		0.579	0.874	0.756			13.5%			84.5	59	41		0.0069	0.0148	0.0184								
11	7-May-04	7.53	6.28	5.37	2.04	2.00	3.04	0.494	0.353	1.29	1.16	28.5%	-161.1%	10.1%	-134.8%	193	93	54	36.5	0.0026	0.0038	0.0239	0.0318								
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	0.173	0.523	0.657	0.766	-202.3%	-279.8%	-16.6%	-342.8%	183	61	47	33	0.0009	0.0086	0.0140	0.0232								
11	9-May-04	7.41	6.19	5.44	2.00	1.97	3.08	0.402	0.573	0.649	0.578	-42.5%	-61.4%	10.9%	-43.8%	182	56	49	37	0.0022	0.0102	0.0132	0.0156	2.12	1.33	0.92	0.83	37.3%	56.6%	9.8%	60.8%
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	0.528	0.728	1.11	0.912	-37.9%	-110.2%	17.8%	-72.7%	219	74	55	31	0.0024	0.0098	0.0202	0.0294								
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	0.327	0.643	0.99	0.939	-96.6%	-202.8%	5.2%	-187.2%	210	72	56	40	0.0016	0.0089	0.0177	0.0235								
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	0.229	0.721	0.468	0.581	-214.8%	-104.4%	-24.1%	-153.7%	192	72	51	36	0.0012	0.0100	0.0092	0.0161								
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	0.215	0.327	1.39	0.781	-52.1%	-546.5%	43.8%	-263.3%	180	72	65	37	0.0012	0.0045	0.0214	0.0211	1.99	1.3	1.95	1.05	34.7%	2.0%	46.2%	47.2%
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	0.106	0.33	1.44	2.6	-211.3%	-1258.5%	-80.6%	-2352.8%	204	63	89	50	0.0005	0.0052	0.0162	0.0520								
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	0.231	0.375	0.254	0.257	-62.3%	-10.0%	-1.2%	-11.3%	184	60	47	37	0.0013	0.0063	0.0054	0.0069								
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	0.165	0.277	0.487		-67.9%	-195.2%			239	64	57		0.0007	0.0043	0.0085									
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	0.296	0.125	0.438		57.8%	-48.0%			239	80	66.5		0.0012	0.0016	0.0066		1.96	1.12	1.00		42.9%	49.0%		
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	0.33	0.165	0.599		50.0%	-81.5%			254	74	76		0.0013	0.0022	0.0079									
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	0.307	0.256	0.665		16.6%	-116.6%			258	66	82		0.0012	0.0039	0.0081		2.12	0.78	1.18		63.2%	44.3%		
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	0.349	0.305	0.834		12.6%	-139.0%			229	67	78		0.0015	0.0046	0.0107									
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	0.687	0.365	1.04		46.9%	-51.4%			209	68	66		0.0033	0.0054	0.0158									
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	0.279	0.438	0.929		-57.0%	-233.0%			199		60		0.0014		0.0155									
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	0.523	0.511	0.868		2.3%	-66.0%			200	58	59		0.0026	0.0088	0.0147									
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81	0.794	0.625	1.1		21.3%	-38.5%			239	64	69		0.0033	0.0098	0.0159									
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	0.695	0.625	1.76		10.1%	-153.2%			210	64	84		0.0033	0.0098	0.0210									
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	0.958	0.834	1.34		12.9%	-39.9%			250	66	85		0.0038	0.0126	0.0158		3.07	1.57	2.41		48.9%	21.5%		
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	0.696	0.74	1.34		-6.3%	-92.5%			242	67	78		0.0029	0.0110	0.0172		3.07	1.48	2.25		51.8%	26.7%		
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	0.629	0.714	1.28		-13.5%	-103.5%			232	70	80		0.0027	0.0102	0.0160									
Week 1 & 2 Average			8.54	7.77		2.72	4.40	0.088		0.071	0.098		4.0%	-62.0%	-42.7%	230		88	62	0.0004		0.0008	0.0017								
Week 1 & 2 Min			6.55	6.91		2.08	3.91	0.043		0.020	0.057		-172.7%	-195.0%	-306.8%	200		58	23	0.0002		0.0002	0.0009								
Week 1 & 2Max			9.00	8.42		2.86	4.76	0.253		0.155	0.179		60.8%	10.5%	43.1%	260		129	108	0.0010		0.0018	0.0044								
Week 3 & 4 Average			7.61	6.51		2.42	3.69	0.151		0.136	0.154		-23.5%	-17.6%	-42.9%	222		67	55	0.0007		0.0022	0.0029								
Week 3 & 4 Min			2.05	3.46		0.65	1.96	0.034		0.050	0.098		-352.9%	-112.0%	-441.2%	149		29	35	0.0001		0.0009	0.0017								
Week 3 & 4 Max			8.26	8.06		2.63	4.56	0.262		0.186	0.245		50.0%	15.5%	54.4%	262		96	66	0.0015		0.0044	0.0042								
Week 5 & 6 Average		8.81	7.70	6.45	2.38	2.45	3.65	0.295	0.197	0.367	0.348	27.6%	-38.4%	2.2%	-41.1%	171	66	56	35	0.0017	0.0032	0.0067	0.0103	2.32	0.94	0.99	0.59	58.5%	58.3%	38.7%	74.9%
Week 5 & 6 Min		7.05	6.60	4.72	1.91	2.10	2.67	0.079	0.065	0.202	0.209	-75.5%	-155.7%	-41.6%	-262.0%	149	54	45	30	0.0005	0.0010	0.0030	0.0060	1.89	0.80	0.72	0.44	43.9%	41.3%	28.8%	68.6%
Week 5 & 6 Max		9.90	8.37	7.09	2.68	2.66	4.01	0.494	0.774	0.745	0.647	68.1%	19.6%	24.9%	38.6%	199	101	69	43	0.0032	0.0143	0.0110	0.0180	2.71	1.06	1.59	0.85	67.8%	67.0%	46.5%	79.8%
Week 7-14 Average		7.18	6.06	4.61	1.94	1.93	2.61	0.421	0.439	0.775	0.762	-22.7%	-121.2%	-13.7%	-169.4%	209	67	61	38	0.0020	0.0064	0.0119	0.0182	2.47	1.20	1.33	0.99	49.8%	45.2%	17.5%	57.7%
Week 7- 14 Min		4.67	3.71	0.60	1.26	1.18	0.34	0.106	0.125	0.103	0.159	-214.8%	-1258.5%	-672.9%	-2352.8%	163	53	47	29	0.0000	0.0000	0.0000	0.0000	1.89	0.78	0.72	0.57	19.0%	2.0%	-63.1%	-11.1%
Week 7-14 Max		7.66	6.80	6.24	2.07	2.16	3.53	0.958	0.834	3.480	2.600	70.6%	84.6%	57.0%	58.5%	387	95	105	74	0.0038	0.0126	0.0335	0.0562	3.39	1.57	2.41	2.61	64.7%	74.5%	46.2%	82.1%

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft

Week	Comp Sample Start Date	Flow (gpm) BIOSTYR	Flow (gpm) BIOFOR C	Flow (gpm) BIOFOR N	Flow (gpm/SF) BIOSTYR	Flow (gpm/SF) BIOFOR C	Flow (gpm/SF) BIOFOR N	TSS Concentration (mg/L) 13-Inf	TSS Concentration (mg/L) 13-BSEff	TSS Concentration (mg/L) 13-BFCEff	TSS Concentration (mg/L) 13-BFNEff	Percent Removal BIOSTYR	Percent Removal Biofor C	Percent Removal Biofor N	Percent Removal 2-Stage	TSS Loading - BS lb/d	TSS Loading - BS lb/d/kcf	TSS Loading - BFC lb/d	TSS Loading - BFC lb/d/kcf	TSS Loading - BFN lb/d	TSS Loading - BFN lb/d/kcf
1	23-Feb-04		6.55	6.91		2.08	3.91	35.9		13.3	17.3		63.0%		51.8%			2.8	74.3	1.0	49.0
1	24-Feb-04		8.65	8.19		2.75	4.63	35.2		11.9	16.6		66.2%		52.8%			3.7	96.3	1.2	57.9
1	25-Feb-04		8.14	7.90		2.59	4.47	39.5		21.3	13.6		46.1%	36.2%	65.6%			3.9	101.6	2.1	97.4
1	27-Feb-04		8.65	8.28		2.75	4.68	32.2		25.1			22.0%					3.3	88.1	2.6	122.1
1	28-Feb-04		8.77	7.70		2.79	4.36	34.3		18.4	4.02		46.4%	78.2%	88.3%			3.6	95.0	1.9	90.6
1	29-Feb-04		9.00	7.00		2.86	3.96	37.3		21.4	6.27		42.6%	70.7%	83.2%			4.0	106.1	2.3	108.2
2	1-Mar-04		8.24	7.17		2.62	4.06	32		12.5	6.74		60.9%	46.1%	78.9%			3.2	83.3	1.2	57.9
2	2-Mar-04		8.70	7.57		2.77	4.28	39.7		14	10.8		64.7%	22.9%	72.8%			4.1	109.1	1.5	68.4
2	3-Mar-04		8.72	7.81		2.78	4.42	51.3		14	15		72.7%		70.8%			5.4	141.4	1.5	68.6
2	4-Mar-04		8.86	8.42		2.82	4.76	46.8		10.8	11.2		76.9%		76.1%			5.0	131.1	1.1	53.8
2	5-Mar-04		8.96	8.13		2.85	4.60	45.1		9.38	6.74		79.2%	28.1%	85.1%			4.9	127.7	1.0	47.2
2	6-Mar-04		8.99	8.06		2.86	4.56	43.7		11.8	8.49		73.0%	28.1%	80.6%			4.7	124.2	1.3	59.6
2	7-Mar-04		8.79	7.86		2.80	4.45	46.5		17.8	7.32		61.7%	58.9%	84.3%			4.9	129.1	1.9	87.9
3	8-Mar-04		7.78	8.06		2.48	4.56	53.1		34.1	13.5		35.8%	60.4%	74.6%			5.0	130.7	3.2	149.2
3	9-Mar-04		8.23	7.30		2.62	4.13	53.2		19.5	11.2		63.3%	42.6%	78.9%			5.3	138.5	1.9	90.2
3	10-Mar-04		7.91	7.11		2.52	4.02	49.8		18	11.5		63.9%	36.1%	76.9%			4.7	124.5	1.7	80.0
3	11-Mar-04		8.18	6.99		2.60	3.96	44.6		16	10.2		64.1%	36.3%	77.1%			4.4	115.3	1.6	73.6
3	12-Mar-04		7.85	7.86		2.50	4.45	37.2		12.8	6.53		65.6%	49.0%	82.4%			3.5	92.4	1.2	56.5
3	13-Mar-04		8.24	6.35		2.62	3.59	33.4		12.2	11		63.5%	9.8%	67.1%			3.3	87.0	1.2	56.5
3	14-Mar-04		8.20	6.66		2.61	3.77	41.5		13.2	8.07		68.2%	38.9%	80.6%			4.1	107.6	1.3	60.8
4	15-Mar-04		8.26	3.46		2.63	1.96	42.7		19.9	15.6		53.4%	21.6%	63.5%			4.2	111.5	2.0	92.4
4	16-Mar-04		2.05	7.61		0.65	4.31	48.4		12.1	11		75.0%	9.1%	77.3%			1.2	31.4	0.3	14.0
4	17-Mar-04		8.05	7.17		2.56	4.06	48.1		8.01	7.07		83.3%	11.7%	85.3%			4.7	122.5	0.8	36.3
4	18-Mar-04		7.94	7.50		2.53	4.24	42.3		9.12	6.44		78.4%	29.4%	84.8%			4.0	106.2	0.9	40.7
4	19-Mar-04		7.86	4.93		2.50	2.79	40.7		13.4	5.49		67.1%	59.0%	86.5%			3.8	101.1	1.3	59.2
4	20-Mar-04		7.86	5.45		2.50	3.09	42.8		10.1	8.71		76.4%	13.8%	79.6%			4.0	106.4	1.0	44.6
4	21-Mar-04		8.13	4.77		2.59	2.70	69.9		20.4	6.28		70.8%	69.2%	91.0%			6.8	179.7	2.0	93.2
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	44.5	25.9	12.6	7.6	41.8%	71.7%	39.7%	82.9%	3.8	89.1	4.3	113.2	1.2	57.0
5	23-Mar-04	9.00	8.00	6.61	2.43	2.54	3.74	44.4	27.3	26.5	5.64	38.5%	40.3%	78.7%	87.3%	4.8	113.5	4.3	112.2	2.5	119.1
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	44.8	22.6	12.8	6	49.6%	71.4%	53.1%	86.6%	4.8	114.1	4.5	118.5	1.3	60.2
5	25-Mar-04	9.00	7.84	6.80	2.43	2.50	3.85	47.2		11.3	5.92		76.1%	47.6%	87.5%	5.1	120.6	4.4	117.0	1.1	49.8
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	41.5	24.4	10.2	5.2	41.2%	75.4%	49.0%	87.5%	4.5	106.8	3.7	98.0	0.9	42.8
5	27-Mar-04	9.00	7.27	7.08	2.43	2.31	4.00	35.8	18.6	13.4	2.71	48.0%	62.6%	79.8%	92.4%	3.9	91.5	3.1	82.3	1.2	54.7
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	40	24.2	10	6	39.5%	75.0%	40.0%	85.0%	4.3	102.2	3.9	102.2	1.0	45.4
6	29-Mar-04	9.00	8.07	6.18	2.43	2.57	3.50	47.8	40.3	13.3	4.35	15.7%	72.2%	67.3%	90.9%	5.2	122.1	4.6	121.9	1.3	60.3
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	44	21.5	11.9	6.1	51.1%	73.0%	48.7%	86.1%	5.2	123.7	4.2	110.0	1.1	52.9
6	31-Mar-04	8.50	7.51	6.03	2.30	2.39	3.41	46.9	22.8	12.5	4.33	51.4%	73.3%	65.4%	90.8%	4.8	113.2	4.2	111.3	1.1	52.8
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	51.5	26	11.1	8	49.5%	78.4%	27.9%	84.5%	5.1	119.9	4.6	120.0	1.0	46.0
6	2-Apr-04	9.40	7.39	6.52	2.54	2.35	3.69		21.3	11.6	6.08			47.6%						1.0	48.2
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	43.6	25.2	8.98	6.21	42.2%	79.4%	30.8%	85.8%	4.7	111.4	4.1	108.5	0.8	39.7
6	4-Apr-04	8.23	6.60	5.63	2.22	2.10	3.19	52.2	27.1	28.5	5.38	48.1%	45.4%	81.1%	89.7%	5.2	121.9	4.1	108.9	2.3	105.7
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	50.6	37.9	18.1	7.67	25.1%	64.2%	57.6%	84.8%	3.4	80.9	3.7	97.2	1.3	61.8
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	54.4	28.3	28.9	7.53	48.0%	46.9%	73.9%	86.2%	3.8	90.6	4.3	113.7	2.3	107.4
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93	44.4	22.5	19.9	8.65	49.3%	55.2%	56.5%	80.5%	3.5	83.6	3.4	88.6	1.5	70.6
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	49.3	21.2	15.3	5.68	57.0%	69.0%	62.9%	88.5%	4.4	103.1	3.5	92.8	1.1	51.2
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	38.3	19.2	12.8	8.39	49.9%	66.6%	34.5%	78.1%	3.4	79.7	2.9	76.8	1.0	45.6
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	38	18.5	13	5.45	51.3%	65.8%	58.1%	85.7%	3.4	81.2	2.9	76.2	1.0	46.4
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	41.8	15.2	10.4	10.4	63.6%	75.1%		75.1%	3.8	89.2	3.3	86.1	0.8	38.1
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	38.8	18.6	14.4	5.94	52.1%	62.9%	58.8%	84.7%	3.5	83.7	2.8	73.6	1.0	48.6
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	54.9	21.9	22.9	12.2	60.1%	58.3%	46.7%	77.8%	4.9	115.9	3.9	101.9	1.6	75.5
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	50.5	18	30.1	31.1	64.4%	40.4%		38.4%	4.6	107.5	3.8	99.5	2.3	105.4
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	42.8	16.9	16.2		60.5%	62.1%			2.4	56.7	3.2	85.1	1.2	57.3
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	46.4	14.6	20.3		68.5%	56.3%			4.2	99.7	3.4	90.7	1.5	70.6
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07	51.1	17.1	16.3		66.5%	68.1%			4.6	108.8	3.9	101.7	1.2	57.7
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	47.4	18	13	7.68	62.0%	72.6%	40.9%	83.8%	4.3	101.4	3.5	93.4	1.0	45.5
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	47.2	23.4	10.3	15.5	50.4%	78.2%		67.2%	4.3	102.6	3.6	94.0	0.8	36.5
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	47	24.6	12.4	4.78	47.7%	73.6%	61.5%	89.8%	4.3	100.5	3.5	92.8	0.9	43.5
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	46.8	19.7	12	12.6	57.9%	74.4%		73.1%	4.2	99.7	3.5	91.1	0.9	41.5
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	38.6	18.3	11.2	3.48	52.6%	71.0%	68.9%	91.0%	3.5	82.9	2.9	76.2	0.8	39.3
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	46.1	20.7	11.3		55.1%	75.5%			4.1	97.5	3.3	87.3	0.8	38.1
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	57.1	15.1	14	6.24	73.6%	75.5%	55.4%	89.1%	5.1	121.6	4.3	112.8	1.1	49.2
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	49.6	15.9	18.6	7.38	67.9%	62.5%	60.3%	85.1%	4.5	105.1	4.0	104.9	1.5	69.9
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	47	26.6		8.74	43.4%			81.4%	4.2	100.1	3.0	78.3		
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	238	35	14.6	8.18	85.3%	93.9%	44.0%	96.6%	21.2	500.0	18.3	480.8	1.1	52.4
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	65.1	17.5	7.14	3.28	73.1%	89.0%	54.1%	95.0%	5.9	139.9	5.0	132.3	0.6	25.8
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	133	23.2	5.76	6.96	82.6%	95.7%		94.8%	12.0	283.2	10.0	262.5	0.4	20.2
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	90.8	20	5.6	2.85	78.0%	93.8%	49.1%	96.9%	8.0	189.9	6.8	178.4	0.4	19.6
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	52.5	18.6	6.34	8.75	64.6%	87.9%		83.3%	4.7	111.8	3.9	102.0	0.5	21.9
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	38.1	13.8	6.98	3.92	63.8%	81.7%	43.8%	89.7%	3.3	79.0	3.0	77.7	0.5	25.3
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	38.7	18.3	10.8	10.5	52.7%	72.1%	2.8%	72.9%	3.5	82.8	2.0	53.6	0.6	26.6
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	34.1	16.2	5.92	3.83	52.5%	82.6%	35.3%	88.8%	2.0	48.4	2.0	53.6	0.4	16.5
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	41.8	18.7	29.2	7.26	55.3%	30.1%	75.1%	82.6%	3.8	89.0	3.2	83.3	2.2	103.4
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22		32.8	9.86	9.88			-0.2%						0.8	35.1
11	7-May-04	7.53	6.28	5.37	2.04	2.00	3.04	34.1	31.6	9.64	7.39	7.3%	71.7%	23.3%	78.3%	3.1	72.9	2.6	67.7	0.7	34.0
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	35.3	24.4	8.14	4.92	30.9%	76.9%	39.6%	86.1%	3.2	75.2	2.2	57.0	0.5	23.4
11	9-May-04	7.41	6.19	5.44	2.00	1.97	3.08	44.5	22.8	8.36	10.4	48.8%	81.2%	-24.4%	76.6%	4.0	93.6	3.3	87.1	0.6	29.1
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	26.9	34.2	12.9	5.15	-27.1%	52.0%	60.1%	80.9%	2.3	53.5	2.0	52.9	1.0	45.1
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	48.8	30.5	8.94	11.8	37.5%	81.7%	-32.0%	75.8%	4.2	98.8	3.5	92.3	0.6	30.1
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	37.4	25.6	9.34	10.2	31.6%	75.0%	-9.2%	72.7%	3.4	80.0	2.1	55.1	0.5	24.4
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	34.5	41.3	11.1	7.72	-19.7%	67.8%	30.5%	77.6%	3.1	72.8	2.2	56.8	0.7	32.5
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	40.6	26.4	33.4	10.5	35.0%	17.7%	68.6%	74.1%	3.7	86.3	3.1	80.8	2.5	118.2
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	40.6	20.9	7.52	8.72	48.5%	81.5%	-16.0%	78.5%	3.6	85.7	3.0	79.0	0.6	26.0
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	49.1	20.5	8.3	9.1	58.2%	83.1%	-9.6%	81.5%	4.4	104.5	4.0	105.5	0.7	31.7
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	36.5	41.6	15.6		-14.0%	57.3%			3.1	73.2	2.7	70.1	1.1	53.3
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	31.4	20.2	8.98		35.7%	71.4%			2.3	53.5	2.3	59.7	0.6	30.3
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	44.7	17.1	14.7		61.7%	67.1%			4.0	95.2	3.4	88.3	1.1	51.6
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	28.8	23.2	15.3		19.4%	46.9%			2.6	61.1	2.1	55.7	1.1	52.6
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	31.9	24.6	12.1		22.9%	62.1%			2.9	67.6	2.1	56.4	0.8	38.1
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	34.7		8.24			76.3%			3.1	74.3	2.8	73.4	0.7	31.0
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	39.2	19	13.2		51.5%	66.3%			3.5	83.5	3.0	78.8	1.0	47.2
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81	45.2	20.4	15.2		54.9%	66.4%			4.1	96.8	3.6	93.7	1.2	56.0
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	47.8	22.3	30.3		53.3%	36.6%			4.3	101.8	2.1	56.0	1.3	63.1
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	31.7	19.4	19.6		38.8%	38.2%			2.9	67.8	2.3	61.7	1.4	67.8
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	46.8	24.6	16.1		47.4%	65.6%			3.4	79.3	3.5	92.4	1.2	56.5
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	44.3	20.3	13.8		54.2%	68.8%			4.0	94.0	3.2	85.4	1.0	47.3
Week 1 & 2 Average			8.54	7.77		2.72	4.40	40.0		15.5	10.3		59.7%	46.1%	74.2%			4.1	108.3	1.6	74.5
Week 1 & 2 Min			6.55	6.91		2.08	3.91	32.0		9.4	4.0		22.0%	22.9%	51.8%			2.8	74.3	1.0	47.2
Week 1 & 2Max			9.00	8.42		2.86	4.76	51.3		25.1	17.3		79.2%	78.2%	88.3%			5.4	141.4	2.6	122.1
Week 3 & 4 Average			7.61	6.51		2.42	3.69	46.3		15.6	9.5		66.3%	34.8%	79.0%			4.2	111.0	1.4	67.7
Week 3 & 4 Min			2.05	3.46		0.65	1.96	33.4		8.0	5.5		35.8%	9.1%	63.5%			1.2	31.4	0.3	14.0
Week 3 & 4 Max			8.26	8.06		2.63	4.56	69.9		34.1	15.6		83.3%	69.2%	91.0%			6.8	179.7	3.2	149.2
Week 5 & 6 Average		8.81	7.70	6.45	2.38	2.45	3.65	44.9	25.2	13.9	5.7	43.1%	68.8%	54.1%	87.5%	4.7	111.5	4.2	109.5	1.3	59.6
Week 5 & 6 Min		7.05	6.60	4.72	1.91	2.10	2.67	35.8	18.6	9.0	2.7	15.7%	40.3%	27.9%	82.9%	3.8	89.1	3.1	82.3	0.8	39.7
Week 5 & 6 Max		9.90	8.37	7.09	2.68	2.66	4.01	52.2	40.3	28.5	8.0	51.4%	79.4%	81.1%	92.4%	5.2	123.7	4.6	121.9	2.5	119.1
Week 7-14 Average		7.18	6.06	4.61	1.94	1.93	2.61	49.3	22.6	14.0	8.4	48.3%	67.5%	37.8%	81.7%	4.3	101.6	3.6	95.2	1.0	47.8
Week 7- 14 Min		4.67	3.71	0.60	1.26	1.18	0.34	26.9	13.8	5.6	2.9	-27.1%	17.7%	-32.0%	38.4%	2.0	48.4	2.0	52.9	0.4	16.5
Week 7-14 Max		7.66	6.80	6.24	2.07	2.16	3.53	238.0	41.6	33.4	31.1	85.3%	95.7%	75.1%	96.9%	21.2	500.0	18.3	480.8	2.5	118.2

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft

Comp Sample		Flow (gpm)			Flow (gpm/SF)			VSS Concentration (mg/L)				Percent Removal				VSS Loading - BS		VSS Loading - BFC		VSS Loading - BFN	
Week	Start Date	BIOSTYR	BIOFOR C	BIOFOR N	BIOSTYR	BIOFOR C	BIOFOR N	13-Inf	13-BSEff	13-BFCEff	13-BFNEff	BIOSTYR	Biofor C	Biofor N	2-Stage	lb/d	lb/d/kcf	lb/d	lb/d/kcf	lb/d	lb/d/kcf
1	23-Feb-04		6.55	6.91		2.08	3.91	26.3		10.3	10.6		60.8%	-2.9%	59.7%			2.1	54.5	0.8	37.9
1	24-Feb-04		8.65	8.19		2.75	4.63	25.2		7.5	8.1		70.2%	-8.0%	67.9%			2.6	68.9	0.8	36.5
1	25-Feb-04		8.14	7.90		2.59	4.47	28.1		12	6.92		57.3%	42.3%	75.4%			2.7	72.3	1.2	54.9
1	27-Feb-04		8.65	8.28		2.75	4.68	23.5		19.4			17.4%					2.4	64.3	2.0	94.3
1	28-Feb-04		8.77	7.70		2.79	4.36	25.8		14.3	2.82		44.6%	80.3%	89.1%			2.7	71.5	1.5	70.4
1	29-Feb-04		9.00	7.00		2.86	3.96	27.7		17.8	4.45		35.7%	75.0%	83.9%			3.0	78.8	1.9	90.0
2	1-Mar-04		8.24	7.17		2.62	4.06	23.4		10.5	4.95		55.1%	52.9%	78.8%			2.3	60.9	1.0	48.6
2	2-Mar-04		8.70	7.57		2.77	4.28	29.2		12	7.6		58.9%	36.7%	74.0%			3.1	80.3	1.3	58.7
2	3-Mar-04		8.72	7.81		2.78	4.42	37.9		11.8	10.4		68.9%	11.9%	72.6%			4.0	104.5	1.2	57.8
2	4-Mar-04		8.86	8.42		2.82	4.76	34.9		9.8	7.8		71.9%	20.4%	77.7%			3.7	97.8	1.0	48.8
2	5-Mar-04		8.96	8.13		2.85	4.60	32.7		7.42	4.88		77.3%	34.2%	85.1%			3.5	92.6	0.8	37.4
2	6-Mar-04		8.99	8.06		2.86	4.56	30.9		8.54	6.01		72.4%	29.6%	80.6%			3.3	87.9	0.9	43.2
2	7-Mar-04		8.79	7.86		2.80	4.45	35.1		13.6	5.39		61.3%	60.4%	84.6%			3.7	97.5	1.4	67.1
3	8-Mar-04		7.78	8.06		2.48	4.56	38.6		26	9.5		32.6%	63.5%	75.4%			3.6	95.0	2.4	113.7
3	9-Mar-04		8.23	7.30		2.62	4.13	37.8		14.1	7.91		62.7%	43.9%	79.1%			3.7	98.4	1.4	65.2
3	10-Mar-04		7.91	7.11		2.52	4.02	36.9		13.7	7.95		62.9%	42.0%	78.5%			3.5	92.3	1.3	60.9
3	11-Mar-04		8.18	6.99		2.60	3.96	32.6		12.3	7.37		62.3%	40.1%	77.4%			3.2	84.3	1.2	56.5
3	12-Mar-04		7.85	7.86		2.50	4.45	26.5		10.6	4.48		60.0%	57.7%	83.1%			2.5	65.8	1.0	46.8
3	13-Mar-04		8.24	6.35		2.62	3.59	24.8		9.4	6		62.1%	36.2%	75.8%			2.5	64.6	0.9	43.5
3	14-Mar-04		8.20	6.66		2.61	3.77	29.6		9.78	4.89		67.0%	50.0%	83.5%			2.9	76.7	1.0	45.1
4	15-Mar-04		8.26	3.46		2.63	1.96	31.4		15.2	9.06		51.6%	40.4%	71.1%			3.1	82.0	1.5	70.6
4	16-Mar-04		2.05	7.61		0.65	4.31	35.6		9.68	8.81		72.8%	9.0%	75.3%			0.9	23.1	0.2	11.2
4	17-Mar-04		8.05	7.17		2.56	4.06	35.3		6.57	5.75		81.4%	12.5%	83.7%			3.4	89.9	0.6	29.7
4	18-Mar-04		7.94	7.50		2.53	4.24	32.3		7.22	5.21		77.6%	27.8%	83.9%			3.1	81.1	0.7	32.2
4	19-Mar-04		7.86	4.93		2.50	2.79	29.5		10.2	4.21		65.4%	58.7%	85.7%			2.8	73.3	1.0	45.0
4	20-Mar-04		7.86	5.45		2.50	3.09	30		8	6.51		73.3%	18.6%	78.3%			2.8	74.6	0.8	35.4
4	21-Mar-04		8.13	4.77		2.59	2.70	50		15.2	4.85		69.6%	68.1%	90.3%			4.9	128.5	1.5	69.5
5	22-Mar-04	7.05	8.04	4.72	1.91	2.56	2.67	31.5	20.6	9.36	5.75	34.6%	70.3%	38.6%	81.7%	2.7	63.1	3.0	80.1	0.9	42.3
5	23-Mar-04	9.00	8.00	6.61	2.43	2.54	3.74	32.4	21.6	19.3	4.22	33.3%	40.4%	78.1%	87.0%	3.5	82.8	3.1	81.9	1.9	86.7
5	24-Mar-04	8.97	8.37	6.80	2.42	2.66	3.85	32	17.4	9.11	4.6	45.6%	71.5%	49.5%	85.6%	3.4	81.5	3.2	84.7	0.9	42.9
5	25-Mar-04	9.00	7.84	6.80	2.43	2.50	3.85	34.9	72.5	8.38	4.66	-107.7%	76.0%	44.4%	86.6%	3.8	89.2	3.3	86.5	0.8	36.9
5	26-Mar-04	9.07	7.47	7.09	2.45	2.38	4.01	31.4	20.2	7.7	4.19	35.7%	75.5%	45.6%	86.7%	3.4	80.8	2.8	74.2	0.7	32.3
5	27-Mar-04	9.00	7.27	7.08	2.43	2.31	4.00	27.2	16.3	9.32	2.56	40.1%	65.7%	72.5%	90.6%	2.9	69.5	2.4	62.5	0.8	38.1
5	28-Mar-04	9.00	8.08	6.97	2.43	2.57	3.94	28.9	20	7.62	4.6	30.8%	73.6%	39.6%	84.1%	3.1	73.8	2.8	73.8	0.7	34.6
6	29-Mar-04	9.00	8.07	6.18	2.43	2.57	3.50	34.3	32.4	9.88	3.27	5.5%	71.2%	66.9%	90.5%	3.7	87.6	3.3	87.5	1.0	44.8
6	30-Mar-04	9.90	7.91	6.51	2.68	2.52	3.68	32.6	17.7	8.8	4.8	45.7%	73.0%	45.5%	85.3%	3.9	91.6	3.1	81.5	0.8	39.1
6	31-Mar-04	8.50	7.51	6.03	2.30	2.39	3.41	32.2	19.3	9.54	3.25	40.1%	70.4%	65.9%	89.9%	3.3	77.7	2.9	76.4	0.9	40.3
6	1-Apr-04	8.20	7.37	6.49	2.22	2.35	3.67	35.1	20.3	8.2	5.97	42.2%	76.6%	27.2%	83.0%	3.5	81.7	3.1	81.8	0.7	34.0
6	2-Apr-04	9.40	7.39	6.52	2.54	2.35	3.69		17.2	8.4	4.6			45.2%						0.7	34.9
6	3-Apr-04	9.00	7.87	6.88	2.43	2.51	3.89	32.7	20.1	6.82	4.95	38.5%	79.1%	27.4%	84.9%	3.5	83.6	3.1	81.4	0.6	30.2
6	4-Apr-04	8.23	6.60	5.63	2.22	2.10	3.19	38.1	19.1	20	4.38	49.9%	47.5%	78.1%	88.5%	3.8	89.0	3.0	79.5	1.6	74.2
7	5-Apr-04	5.63	6.08	5.91	1.52	1.94	3.34	36.5	29.6	12.7	6.13	18.9%	65.2%	51.7%	83.2%	2.5	58.4	2.7	70.2	0.9	43.4
7	6-Apr-04	5.87	6.61	5.35	1.59	2.11	3.03	40.8	22.5	19.6	6.27	44.9%	52.0%	68.0%	84.6%	2.9	68.0	3.2	85.3	1.6	72.8
7	7-Apr-04	6.63	6.31	5.17	1.79	2.01	2.93	32.5	17.6	13.9	6.75	45.8%	57.2%	51.4%	79.2%	2.6	61.2	2.5	64.9	1.1	49.3
7	8-Apr-04	7.37	5.95	5.99	1.99	1.90	3.39	35.8	17.2	11.4	4.7	52.0%	68.2%	58.8%	86.9%	3.2	74.9	2.6	67.4	0.8	38.1
7	9-Apr-04	7.33	6.34	6.21	1.98	2.02	3.51	28.7	15.4	9.54	6.63	46.3%	66.8%	30.5%	76.9%	2.5	59.7	2.2	57.6	0.7	34.0
7	10-Apr-04	7.52	6.35	5.86	2.03	2.02	3.31	28	14.6	10	4.49	47.9%	64.3%	55.1%	84.0%	2.5	59.8	2.1	56.2	0.8	35.7
7	11-Apr-04	7.52	6.52	5.48	2.03	2.07	3.10	32	13.2	9.76	8.5	58.8%	69.5%	12.9%	73.4%	2.9	68.3	2.5	65.9	0.8	35.7
8	12-Apr-04	7.60	6.00	5.63	2.05	1.91	3.19	28.7	15.5	11	4.88	46.0%	61.7%	55.6%	83.0%	2.6	61.9	2.1	54.5	0.8	37.1
8	13-Apr-04	7.43	5.87	5.70	2.01	1.87	3.23	39.7	19	15.6	9.52	52.1%	60.7%	39.0%	76.0%	3.5	83.8	2.8	73.7	1.1	51.5
8	14-Apr-04	7.50	6.23	5.26	2.03	1.98	2.98	37.7	15.2	21.5	20	59.7%	43.0%	7.0%	46.9%	3.4	80.3	2.8	74.3	1.6	75.3
8	15-Apr-04	4.67	6.29	5.56	1.26	2.00	3.15	35.3	14.1	12.8		60.1%	63.7%			2.0	46.8	2.7	70.2	1.0	45.2
8	16-Apr-04	7.57	6.19	5.62	2.05	1.97	3.18	33.7	11.6	15.2		65.6%	54.9%			3.1	72.4	2.5	65.9	1.1	52.9
8	17-Apr-04	7.50	6.29	5.43	2.03	2.00	3.07	34.9	13	12		62.8%	65.6%			3.1	74.3	2.6	69.4	0.9	42.4
8	18-Apr-04	7.54	6.23	5.44	2.04	1.98	3.08	35.1	13.9	9.8	5.18	60.4%	72.1%	47.1%	85.2%	3.2	75.1	2.6	69.1	0.7	34.3
9	19-Apr-04	7.66	6.30	5.64	2.07	2.01	3.19	34.8	17.1	7.9	11.7	50.9%	77.3%	-48.1%	66.4%	3.2	75.7	2.6	69.3	0.6	28.0
9	20-Apr-04	7.53	6.24	5.68	2.04	1.99	3.21	34.7	17.6	9.4	3.72	49.3%	72.9%	60.4%	89.3%	3.1	74.2	2.6	68.5	0.7	33.0
9	21-Apr-04	7.50	6.16	5.52	2.03	1.96	3.12	33.8	14.9	9.14	8.32	55.9%	73.0%	9.0%	75.4%	3.0	72.0	2.5	65.8	0.7	31.6
9	22-Apr-04	7.57	6.25	5.10	2.05	1.99	2.89	30	14.2	8.92	3.28	52.7%	70.3%	63.2%	89.1%	2.7	64.4	2.3	59.2	0.7	31.3
9	23-Apr-04	7.45	5.99	5.63	2.01	1.91	3.19	33.8	15.9	8.52		53.0%	74.8%			3.0	71.5	2.4	64.0	0.6	28.7
9	24-Apr-04	7.50	6.25	5.68	2.03	1.99	3.22	42.6	11.7	10.4	5.32	72.5%	75.6%	48.8%	87.5%	3.8	90.8	3.2	84.2	0.8	36.5
9	25-Apr-04	7.47	6.69	4.98	2.02	2.13	2.82	37.5	12.5	13.1	5.46	66.7%	65.1%	58.3%	85.4%	3.4	79.5	3.0	79.3	1.1	49.3
10	26-Apr-04	7.50	5.27	5.12	2.03	1.68	2.90	34.6	21	41.2	6.08	39.3%	-19.1%	85.2%	82.4%	3.1	73.7	2.2	57.6	2.6	122.0
10	27-Apr-04	7.40	6.39	5.70	2.00	2.03	3.22	145	26.7	9.74	5.64	81.6%	93.3%	42.1%	96.1%	12.9	304.6	11.1	292.9	0.7	35.0
10	28-Apr-04	7.57	6.43	5.52	2.05	2.05	3.13	48.4	14.3	5.62	3.04	70.5%	88.4%	45.9%	93.7%	4.4	104.0	3.7	98.3	0.4	20.3
10	29-Apr-04	7.50	6.24	6.24	2.03	1.99	3.53	93.6	17.9	4.88	5.6	80.9%	94.8%	-14.8%	94.0%	8.4	199.3	7.0	184.7	0.4	17.1
10	30-Apr-04	7.37	6.22	5.44	1.99	1.98	3.08	59.2	15.6	4.14	2.64	73.6%	93.0%	36.2%	95.5%	5.2	123.8	4.4	116.3	0.3	14.5
10	1-May-04	7.50	6.15	5.13	2.03	1.96	2.90	34.6	14.2	5.26	6.91	59.0%	84.8%	-31.4%	80.0%	3.1	73.7	2.6	67.2	0.4	18.2
10	2-May-04	7.30	6.45	4.51	1.97	2.05	2.55	29.2	10	5.76	3.06	65.8%	80.3%	46.9%	89.5%	2.6	60.5	2.3	59.5	0.4	20.9
11	3-May-04	7.53	4.38	5.28	2.04	1.39	2.99	28.8	13.4	8.2	7.98	53.5%	71.5%	2.7%	72.3%	2.6	61.6	1.5	39.9	0.4	20.2
11	4-May-04	5.00	4.97	5.55	1.35	1.58	3.14	26	13	4.88	3.19	50.0%	81.2%	34.6%	87.7%	1.6	36.9	1.6	40.9	0.3	13.6
11	5-May-04	7.50	6.30	5.52	2.03	2.01	3.12	30.7	13	19.3	5.24	57.7%	37.1%	72.8%	82.9%	2.8	65.4	2.3	61.1	1.5	68.3
11	6-May-04	4.93	6.34	5.69	1.33	2.02	3.22		26.5	7.74	6.2			19.9%						0.6	27.6
11	7-May-04	7.53	6.28	5.37	2.04	2.00	3.04	23.3	24.3	7.2	5.55	-4.3%	69.1%	22.9%	76.2%	2.1	49.8	1.8	46.3	0.5	25.4
11	8-May-04	7.50	5.11	4.79	2.03	1.63	2.71	24.8	18.6	6.84	3.52	25.0%	72.4%	48.5%	85.8%	2.2	52.8	1.5	40.1	0.4	19.6
11	9-May-04	7.41	6.19	5.44	2.00	1.97	3.08	32	17.6	6.9	7.84	45.0%	78.4%	-13.6%	75.5%	2.8	67.3	2.4	62.7	0.5	24.0
12	10-May-04	7.00	6.22	5.30	1.89	1.98	3.00	20.1	25.5	9.56	3.78	-26.9%	52.4%	60.5%	81.2%	1.7	39.9	1.5	39.5	0.7	33.4
12	11-May-04	7.13	5.98	5.14	1.93	1.90	2.91	35	24.1	7.3	8.72	31.1%	79.1%	-19.5%	75.1%	3.0	70.9	2.5	66.2	0.5	24.5
12	12-May-04	7.53	4.66	5.59	2.04	1.48	3.16	26.6	21.7	7.54	7.6	18.4%	71.7%	-0.8%	71.4%	2.4	56.9	1.5	39.2	0.4	19.7
12	13-May-04	7.43	5.21	5.78	2.01	1.66	3.27	24.4	32.9	8.42	5.8	-34.8%	65.5%	31.1%	76.2%	2.2	51.5	1.5	40.2	0.5	24.7
12	14-May-04	7.49	6.30	5.73	2.03	2.00	3.24	29.4	20.6	24	8.16	29.9%	18.4%	66.0%	72.2%	2.6	62.5	2.2	58.5	1.8	84.9
12	15-May-04	7.43	6.15	5.54	2.01	1.96	3.14	28	17.2	6.02	6.4	38.6%	78.5%	-6.3%	77.1%	2.5	59.1	2.1	54.5	0.4	20.8
12	16-May-04	7.50	6.80	2.53	2.03	2.16	1.43	35.8	17	6.8	6.3	52.5%	81.0%	7.4%	82.4%	3.2	76.2	2.9	76.9	0.6	26.0
13	17-May-04	7.07	6.08	0.84	1.91	1.93	0.47	26.4	32.4	11.8		-22.7%	55.3%			2.2	53.0	1.9	50.7	0.9	40.3
13	18-May-04	6.00	6.01	3.12	1.62	1.91	1.76	22.7	15.6	6.76		31.3%	70.2%			1.6	38.7	1.6	43.2	0.5	22.8
13	19-May-04	7.50	6.25	1.70	2.03	1.99	0.96	32.6	13.3	11.8		59.2%	63.8%			2.9	69.4	2.4	64.4	0.9	41.4
13	20-May-04	7.47	6.12	1.85	2.02	1.95	1.04	20.2	17.7	11.4		12.4%	43.6%			1.8	42.8	1.5	39.1	0.8	39.2
13	21-May-04	7.47	5.60	1.37	2.02	1.78	0.78	22.7	19.5	9.36		14.1%	58.8%			2.0	48.1	1.5	40.2	0.6	29.4
13	22-May-04	7.55	6.69	1.52	2.04	2.13	0.86	24		6.34			73.6%			2.2	51.4	1.9	50.8	0.5	23.8
13	23-May-04	7.50	6.36	0.60	2.03	2.02	0.34	28.7	15	10.7		47.7%	62.7%			2.6	61.1	2.2	57.7	0.8	38.2
14	24-May-04	7.55	6.56	1.43	2.04	2.09	0.81	33.7	17.7	12.2		47.5%	63.8%			3.1	72.2	2.7	69.9	1.0	45.0
14	25-May-04	7.50	3.71	1.69	2.03	1.18	0.95	34.9	17	22.5		51.3%	35.5%			3.1	74.3	1.6	40.9	1.0	46.9
14	26-May-04	7.53	6.15	3.22	2.04	1.96	1.82	23.5	15.8	15.4		32.8%	34.5%			2.1	50.3	1.7	45.7	1.1	53.3
14	27-May-04	5.97	6.25	1.66	1.61	1.99	0.94	34.1	19.5	12.4		42.8%	63.6%			2.4	57.8	2.6	67.3	0.9	43.5
14	28-May-04	7.47	6.10	1.95	2.02	1.94	1.10	30.5	16.6	10.7		45.6%	64.9%			2.7	64.7	2.2	58.8	0.8	36.7
Week 1 & 2 Average			8.54	7.77		2.72	4.40	29.3		11.9	6.7		57.8%	36.1%	77.4%			3.0	79.4	1.2	57.4
Week 1 & 2 Min			6.55	6.91		2.08	3.91	23.4		7.4	2.8		17.4%	-8.0%	59.7%			2.1	54.5	0.8	36.5
Week 1 & 2Max			9.00	8.42		2.86	4.76	37.9		19.4	10.6		77.3%	80.3%	89.1%			4.0	104.5	2.0	94.3
Week 3 & 4 Average			7.61	6.51		2.42	3.69	33.6		12.0	6.6		64.4%	40.6%	80.1%			3.1	80.7	1.1	51.8
Week 3 & 4 Min			2.05	3.46		0.65	1.96	24.8		6.6	4.2		32.6%	9.0%	71.1%			0.9	23.1	0.2	11.2
Week 3 & 4 Max			8.26	8.06		2.63	4.56	50.0		26.0	9.5		81.4%	68.1%	90.3%			4.9	128.5	2.4	113.7
Week 5 & 6 Average	8.81		7.70	6.45	2.38	2.45	3.65	32.6	23.9	10.2	4.4	25.7%	68.5%	51.8%	86.5%	3.4	80.9	3.0	79.4	0.9	43.7
Week 5 & 6 Min	7.05		6.60	4.72	1.91	2.10	2.67	27.2	16.3	6.8	2.6	-107.7%	40.4%	27.2%	81.7%	2.7	63.1	2.4	62.5	0.6	30.2
Week 5 & 6 Max	9.90		8.37	7.09	2.68	2.66	4.01	38.1	72.5	20.0	6.0	49.9%	79.1%	78.1%	90.6%	3.9	91.6	3.3	87.5	1.9	86.7
Week 7-14 Average	7.18		6.06	4.61	1.94	1.93	2.61	35.3	17.8	11.1	6.3	44.0%	64.8%	31.7%	81.1%	3.1	72.6	2.6	68.0	0.8	37.5
Week 7- 14 Min	4.67		3.71	0.60	1.26	1.18	0.34	20.1	10.0	4.1	2.6	-34.8%	-19.1%	-48.1%	46.9%	1.6	36.9	1.5	39.1	0.3	13.6
Week 7-14 Max	7.66		6.80	6.24	2.07	2.16	3.53	145.0	32.9	41.2	20.0	81.6%	94.8%	85.2%	96.1%	12.9	304.6	11.1	292.9	2.6	122.0

1.5 = BIOFOR N Column Diameter, ft
2 = BIOFOR C Column Diameter, ft
12.1 = BIOFOR C & N Media Depth, ft

2.17 = BIOSTYR Column Diameter, ft
11.48 = BIOSTYR Media Depth, ft