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1.- ABASTECIMIENTO

1.1.- INTRODUCCIÓN

-Depósitos o suministros de la red.

Una red de agua recibe alimentación por uno o varios puntos. Dichos puntos pueden ser:

- **Depósitos:** Cuando se encuentran en una cota elevada, generan la altura piezométrica que mueve el agua a través de los conductos. Se considera su capacidad para producir presión como la altura piezométrica del mismo, es decir, su cota más su nivel.
- **Suministros de red:** Son los puntos de entrada procedentes de la compañía suministradora o viene de otras redes capaces de proporcionar agua a la instalación. Como los depósitos, son los puntos que generan el movimiento de agua en la red. Su altura piezométrica viene determinada por su cota más la presión que asegure la compañía suministradora en dicho punto. A nivel de cálculo, ambos nudos son del mismo tipo, es decir, puntos con altura piezométrica fija e igual a su cota más la presión disponible (el nivel en el caso de depósitos; la presión disponible en el caso de puntos de suministro de la compañía).

Los valores de las presiones de suministro de agua varían entre los 20 y los 40 m.c.a., pero debe consultarse con la compañía suministradora la presión que es capaz de entregar en cada uno de los puntos de alimentación de la red que hayamos planeado incluir en el cálculo.

En efecto, dos suministros con presiones similares y alturas geométricas diferentes pueden producir circulaciones entre ellos, debido a la diferencia de alturas piezométricas. Si no existe entre ellos una carga lo suficientemente grande para paliar la diferencia de alturas piezométricas, puede producirse un trasvase de agua de uno a otro.

Para evitar las circulaciones, pueden tomarse las siguientes medidas:

- Evitar en lo posible un gran número de nudos de suministro y, en caso de que sea necesario situar varios de estos puntos, deberán estar lo más separados posible.
- Evitar grandes diferencias de altura piezométrica entre los nudos de suministro. Puede suponerse que la red de la compañía distribuidora es lo suficientemente extensa y está diseñada para proporcionar alturas similares en todos los puntos.
- Situar válvulas antirretorno que permiten la circulación sólo en el sentido deseado.

- Velocidad en las conducciones.

Una de las principales limitaciones a la hora de dimensionar una red de conductos de agua es la velocidad del fluido en los mismos.

Se suele emplear como límite inferior de velocidad 0,5 m/s, a menos que exista una limitación de diámetro mínimo que impida el cumplimiento de esta velocidad en algunos tramos. Por debajo de 0,5 m/s tienen lugar procesos de sedimentación y estancamiento.

La velocidad máxima suele estar comprendida entre 1,5 y 2 m/s, para evitar fenómenos de arrastre y ruidos, así como grandes pérdidas de carga.

- Presiones en los consumos.

Cuando se diseña una red hidráulica de suministro de agua potable, es necesario asegurar en los consumos una presión disponible mínima a la cual se distribuye el agua. También puede limitar el diseño, en algunos casos, el exceso de presión, ya que podría provocar roturas. El rango normal de presiones disponibles en nudos de consumo oscila

entre los 10 y los 50 m.c.a., aún cuando estos valores vienen determinados en gran medida por las necesidades y tipo propios de cada consumo, junto a un incremento en las fugas en la red y la necesidad de válvulas reductoras en las acometidas de los consumos que no puedan soportar tan altas presiones.

-Conducciones

El funcionamiento de una instalación de suministro de agua depende en gran medida del tipo y tamaño de las conducciones empleadas.

-Materiales.

Determinan la rugosidad superficial del tubo con la que se va a encontrar el agua. Una mayor rugosidad del material implica mayores pérdidas en el tramo. Se suele utilizar en milímetros. Estos son los valores habituales en proyecto de la rugosidad absoluta:

-Consideración de elementos especiales.

Debido a necesidades constructivas o de control, las instalaciones de abastecimiento de agua requieren del uso de elementos especiales diferentes a las tuberías, como pueden ser válvulas (en sus diferentes variantes), codos, reducciones, carretes, ...

. Válvula de control de presión. Esta es una válvula de regulación pilotada por presión. Controlando su posición de cierre hará que aguas abajo de la válvula se alcance la consigna de presión establecida, siempre que la presión aguas arriba sea superior a ésta. Se pueden definir distintos tarados de presión para cada combinación. Si la instalación queda con una presión inferior a la consignada, sólo se introducirán las pérdidas a válvula abierta.

. Válvula de compuerta. De acuerdo con las Normas de Canal de Isabel II, se han de colocar válvulas de compuerta para conducciones de diámetro inferior a 300mm. Se han colocado válvulas de este tipo en las derivaciones de las ventosas y en los desagües. También se ha colocado una en el cruce de Brión para permitir aislar el tramo de conducción hacia el depósito de Brión.

. Válvula de mariposa. De acuerdo con las Normas de Canal de Isabel II, se han de colocar válvulas de compuerta para conducciones de diámetro superior a 300mm. Se han colocado válvulas de este tipo en los desagües, en la conducción principal, de modo que actúen como válvula de sectorización permitiendo aislar tramos en los que el volumen almacenado no supere los 500 m³. Dada la longitud y el diámetro de las conducciones sólo ha sido necesario colocar válvulas de sectorización en la impulsión.

Ventosas. Se colocan en los puntos altos de las conducciones, con una distancia media entre ellas de 500 m en la impulsión y 500 m en las conducciones por gravedad.

Desagües. Se colocan en los puntos bajos de las conducciones. Los elementos de los que constan se pueden ver en los planos.

Para el dimensionamiento de las conducciones se ha considerado la longitud total del tramo y la altura geométrica que existe entre los puntos inicial y final. Se dimensiona para el caudal de cálculo .

Véase el anejo nº4, "Estudio de Demografía y Caudales", para una completa descripción de los criterios de estimación de los caudales.

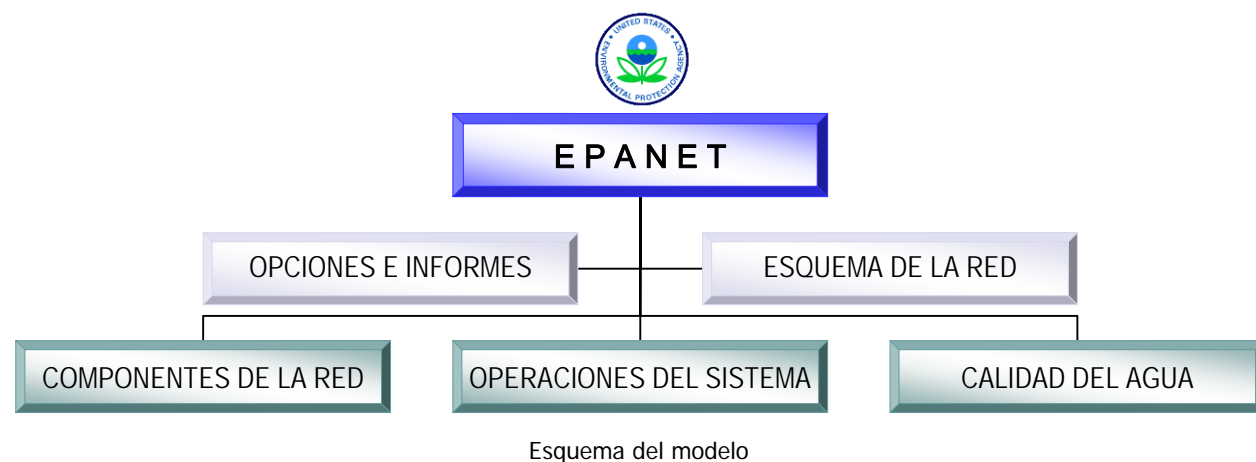
2.- MODELO DE ANÁLISIS

2.1.- INTRODUCCIÓN

Para realizar el cálculo hidráulico del sistema, se ha utilizado el programa informático EPANET, desarrollado por la División de Recursos Hídricos y Suministros de Agua del Laboratorio de Investigación Nacional para la Gestión de Riesgos, de la Agencia de Medio Ambiente de los Estados Unidos (Water Supply and Water Resources Division, of the U.S. Environmental Protection Agency's National Risk Management Research Laboratory - EPA).

Proporciona un entorno integrado bajo Windows para la edición de los datos de entrada a la red, la realización de simulaciones hidráulicas y de la calidad del agua, y finalmente la visualización de resultados.

Esta aplicación permite realizar simulaciones en periodo extendido del comportamiento hidráulico y de la evolución de la calidad del agua en redes de suministro a presión. Una red puede estar constituida por tuberías, nudos (uniones de tuberías), bombas, válvulas y depósitos de almacenamiento o embalses. EPANET efectúa un seguimiento de la evolución de los caudales en las tuberías, las presiones en los nudos, los niveles en los depósitos, y la concentración de las especies químicas presentes en el agua, a lo largo de todo el periodo de simulación, discretizado en múltiples intervalos de tiempo.



2.2.- FUNDAMENTOS DE CÁLCULO

Como se ha indicado anteriormente, cuando las condiciones de contorno varían de forma gradual en el tiempo, es aceptable despreciar los efectos elásticos e inerciales en las ecuaciones de cálculo, lo que equivale a efectuar la hipótesis de que los equilibrios hidráulicos se producen de manera casi instantánea.

De esta forma, un modelo matemático de estas características opera bajo las hipótesis de cálculo que se enumeran a continuación:

- Flujo a sección llena en las tuberías.
- La altura cinética (correspondiente a la componente de velocidad de la energía total en un punto) es mucho menor que la pérdida de carga continua en las conducciones, por lo que se desprecian sin suponer una merma en la precisión de los métodos de análisis.
- Las pérdidas de carga en las uniones de conducciones, accesorios, etc. son mucho menores que las pérdidas de carga distribuidas, debidas al rozamiento viscoso de las capas de fluido entre sí. Por este motivo las pérdidas menores se consideran despreciables a efectos de cálculo.
- Pérdida de carga continua modelada mediante las fórmulas de: Hazen-Williams, Darcy-Weisbach o Chezy-Manning.
- Las demandas derivadas del consumo de agua por los usuarios del sistema se admite que se encuentran concentrados en los nudos, y no a lo largo de las conducciones como ocurre en la realidad. Esta simplificación es bastante habitual, y facilita notablemente la resolución de las ecuaciones de red.
- Las demandas en los nudos se consideran constantes y no cambian con las variaciones de presión.
- Cálculo iterativo mediante el método del gradiente.

2.3.- METODOLOGÍA DE CÁLCULO

El objetivo del modelo matemático es la determinación de la distribución de caudales y alturas piezométricas dentro de la red. Una red de distribución puede representarse como un conjunto de nudos conectados entre sí por líneas que transportan agua entre dichos nudos; de manera que para cada nudo de la red existen dos variables asociadas:

- caudal entrante o saliente
- altura piezométrica

En relación a lo anterior, los nudos de la red se clasifican en nudos con caudal de salida/entrada, es decir, con un consumo/aporte asociado y altura piezométrica desconocida; y depósitos o embalses, en los que se conoce la altura piezométrica, pero no el caudal saliente/entrante.

Para las líneas, la variable a determinar será el caudal circulante y conocido éste podremos determinar las demás variables características: velocidad y pérdida de carga unitaria.

Las ecuaciones básicas a plantear para la resolución del problema serán:

- *Ecuaciones de continuidad en los nudos:*

$$\sum_i Q_i = 0$$

Son ecuaciones lineales en las que se establece que la suma de los caudales entrantes y salientes en un nudo es nula. El número de nudos linealmente independientes, y que por tanto, dan lugar a ecuaciones linealmente independientes es n-1, siendo n el número total de nudos en la red.

- *Ecuaciones de conservación de la energía en las mallas:*

$$\sum_i \Delta H_i = \sum_i K \cdot Q^a = 0$$

Son ecuaciones no lineales que representan el hecho de que la pérdida de carga a través de un circuito de circulación cerrado debe ser nula, ya que la llegada al punto de partida debe hacerse con la misma energía con la que se inició el recorrido. El número de ecuaciones de malla linealmente independientes se obtiene restandole al número de líneas presentes en la red (t), el número total de nudos menos uno.

El método que emplea EPANET para resolver simultáneamente las ecuaciones de continuidad en los nudos y las ecuaciones de conservación de la energía en las mallas, para un instante dado, puede clasificarse como un método híbrido de nudos y mallas. Así, las ecuaciones anteriores (n+t ecuaciones independientes) constituyen un sistema no lineal que se resuelve iterando mediante el método del gradiente, hasta llegar a una solución válida teniendo en cuenta los criterios de convergencia impuestos.

2.4.- DATOS DE PARTIDA

PENDIENTES

Los perfiles de los colectores se han trazado buscando siempre un recubrimiento mínimo de un metro, así como un volumen de tierras lo más pequeño posible. También se ha intentado minimizar los cambios de sentido de la pendiente para evitar el tener que usar desagües de fondo y ventosas

DIÁMETROS

Se calcula iterando mediante la fórmula de Prandtl-Colebrook:

$$I = \frac{\lambda}{D} \cdot \frac{V^2}{2 \cdot g}$$

donde:

λ es el coeficiente de fricción (adimensional)

D es el diámetro interior (m) del tubo

V es la velocidad media (m/s)

g es la gravedad (m²/s)

I es la pendiente en tanto por uno, es decir, I = h_r / L

El coeficiente de fricción, en régimen turbulento, se calcula según la expresión:

$$\frac{1}{\sqrt{\lambda}} = -2 \cdot \log_{10} \left[\frac{2,51}{Re \cdot \sqrt{\lambda}} + \frac{k}{3,71 \cdot D} \right]$$

donde:

Re es el número de Reynolds (adimensional)

k es la rugosidad absoluta de las paredes (m)

D es el diámetro interior (m) del tubo

λ es el coeficiente de fricción (adimensional)

El número de Reynolds se calcula a partir de la expresión:

$$Re = \frac{V \cdot D}{\nu}$$

donde:

V es la velocidad media (m/s)

D es el diámetro interior (m) del tubo

v es la viscosidad cinemática del fluido (m/s)

Se ha considerado para los cálculos el valor de la viscosidad cinemática del fluido para agua limpia a una temperatura de 10°C, es decir, un valor de $1,31 \cdot 10^{-6}$.

En el caso de tuberías lisas la rugosidad absoluta de las paredes no influye y se puede calcular el coeficiente de fricción como:

$$\frac{1}{\sqrt{\lambda}} = 2 \cdot \log_{10} \frac{Re\sqrt{\lambda}}{2,51}$$

donde:

Re es el número de Reynolds (adimensional)

λ es el coeficiente de fricción (adimensional)

Y para valores del número de Reynolds entre $5 \times 10^3 < Re < 1 \times 10^8$ se puede utilizar la simplificación de Colebrook:

$$\frac{1}{\sqrt{\lambda}} = 1,8 \cdot \log_{10} \frac{Re}{7}$$

donde:

Re es el número de Reynolds (adimensional)

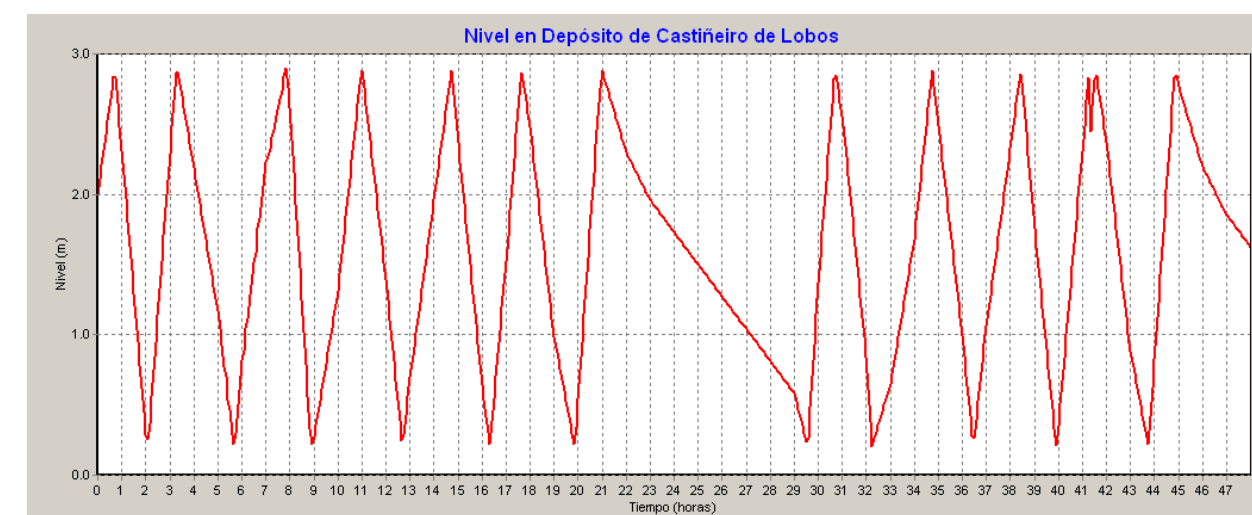
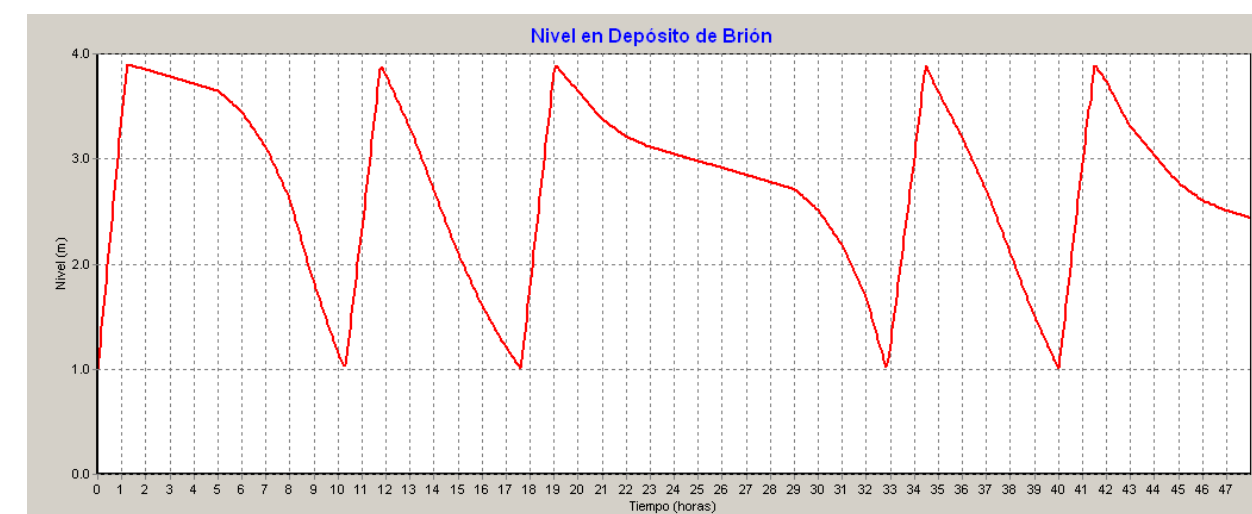
λ es el coeficiente de fricción (adimensional)

2.5.- RESULTADOS

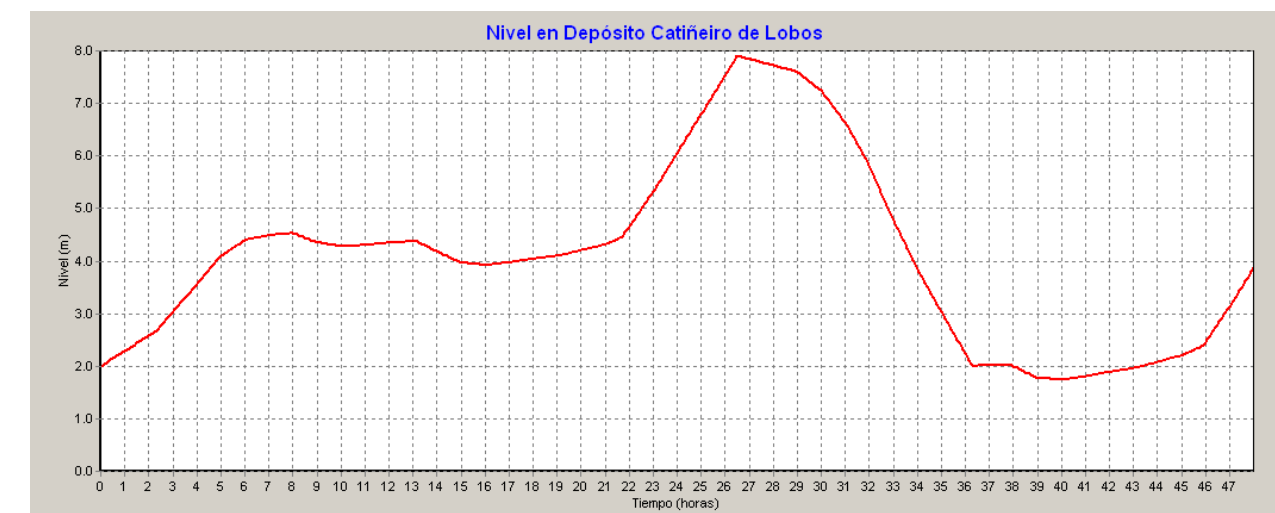
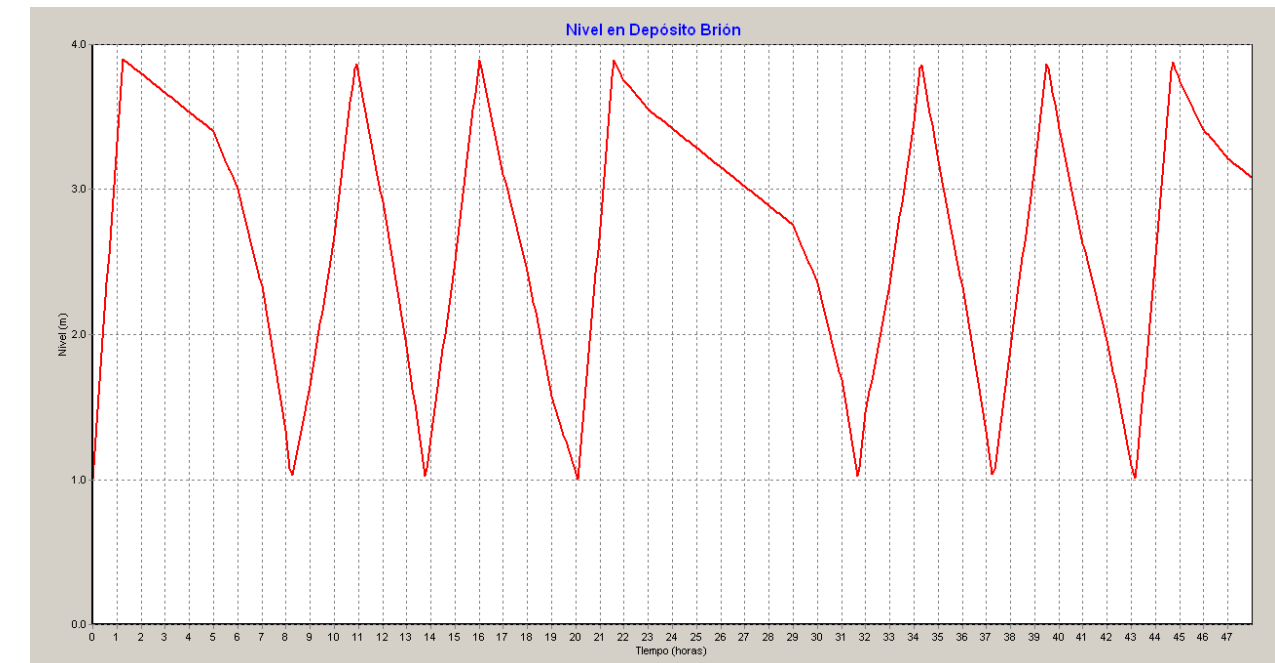
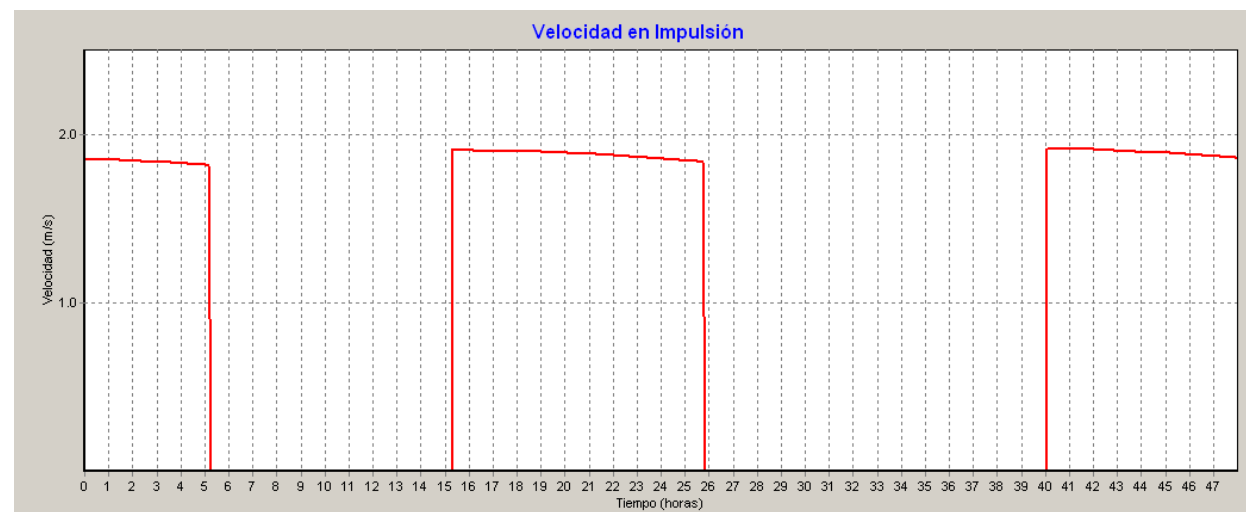
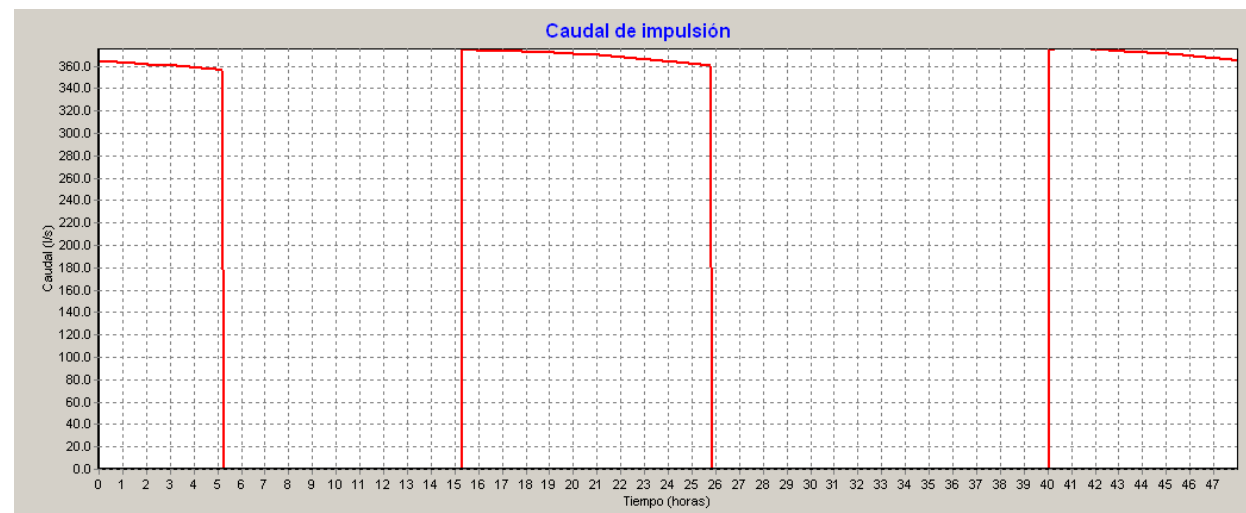
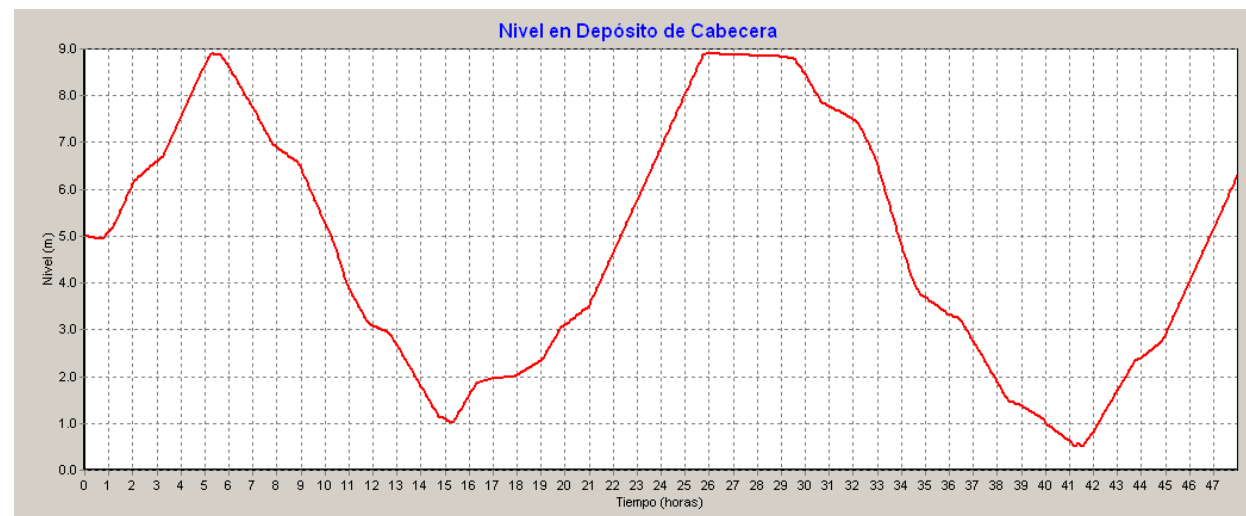
Se proyectan la impulsión y las conducciones, en tubería de fundición dúctil de 250, 450, 500 y 600 milímetros de diámetro nominal.

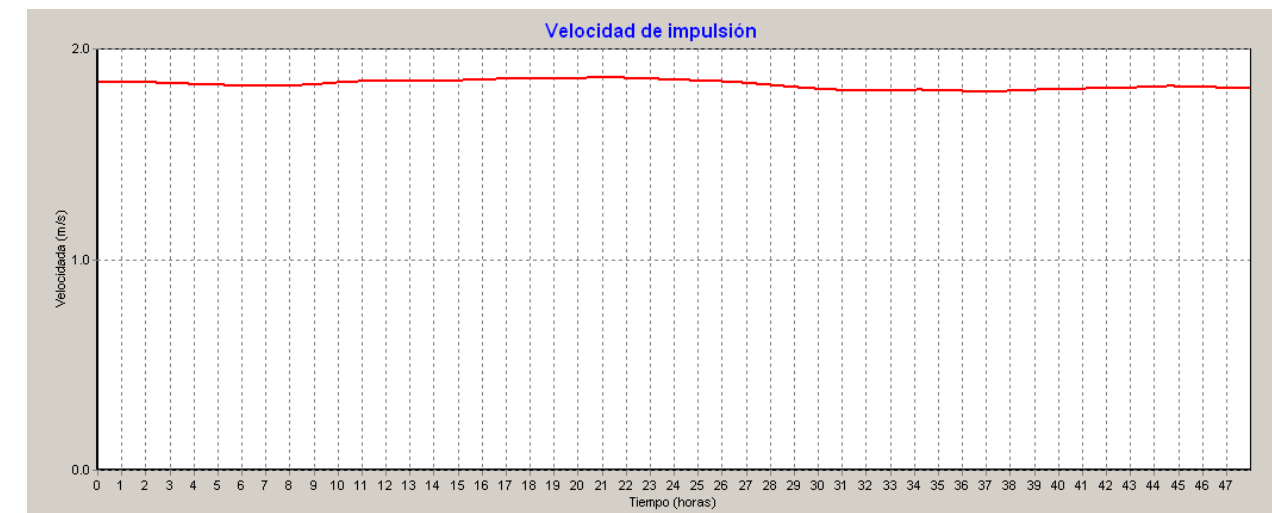
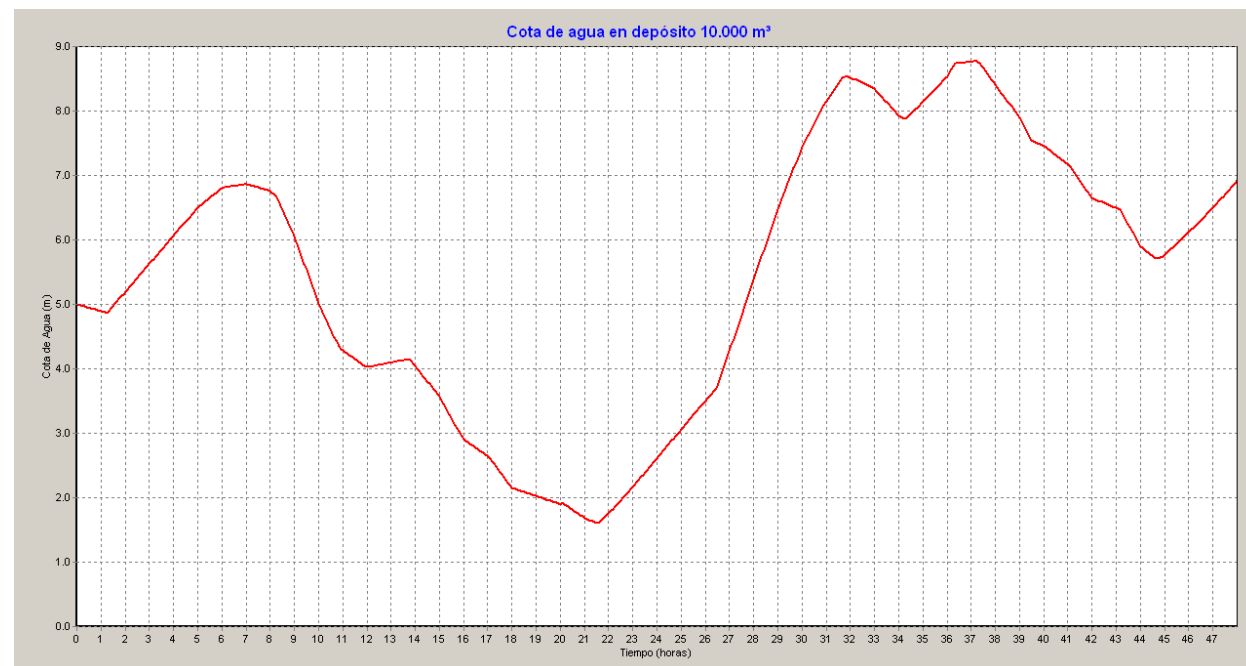
A continuación se presentan las gráficas de resultados más representativas para cada una de las fase constructivas.

FASE 1

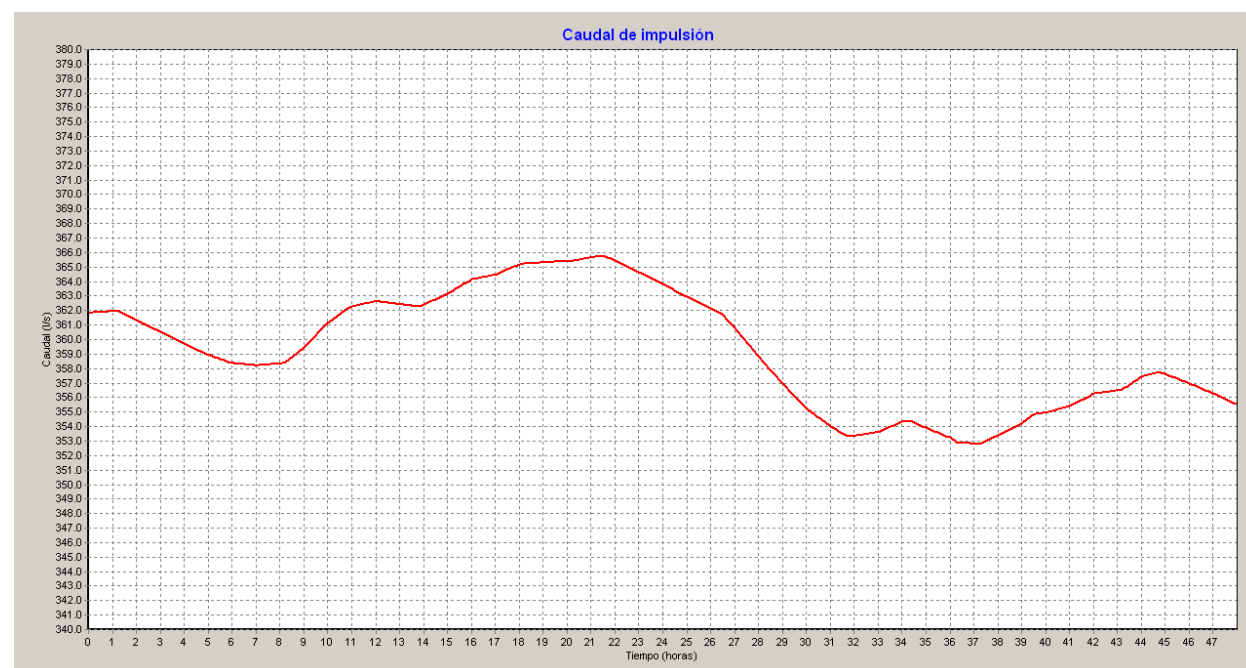


FASE 2





Se adjunta al presente anejo un extracto del listado de resultados obtenido al realizar los cálculos hidráulicos con el programa EPANET, para cada una de las fases constructivas.



FASE 1

Page 1 29/01/2008 11:07:53

* E P A N E T *
* Hydraulic and Water Quality *
* Analysis for Pipe Networks *
* Version 2.0 *

Input File: Ames Enero Fase 1.NET

Ames

Link - Node Table:

Link ID	Start Node	End Node	Length m	Diameter mm
T0000	N0000	DETAP	3.22	600
T0001	N0001	N0002	4992.24	500
T0002	N0002	DREG	89.03	500
T1001	DREG	N1001	5.80	600
T1002	N1002	N1003	88.97	600
T1003	N1003	N1004	1668.148	600
T1004	N1004	N1005	103.865	500
T1005	N1005	N1006	2441.73	450
T1006	N1007	DCASTI	0.65	400
T2001	N2001	N2002	2301.64	250
T2002	N2003	DBRION	15.04	250
T3001	DCASTI	N3001	2.68	350
T3002	N3001	N3002	734.07	350
T3003	N3002	N3003	3717.98	160
T3004	N3003	DALDEA	9.80	160
T4001	N4001	N4002	790.801	200
T4002	N4002	DACOSTA	22.45	200
T5001	DALDEA	N5001	32.72	200
T5002	N5001	N5002	1680.08	200
T5003	QUIST	N5003	100	200
T6001	N3002	N6001	1941.52	350
T6002	N6001	N6002	881.285	350
T7001	DALDEA	N6003	2785.46	300
T7002	N6003	N6002	201.53	300
T7003	N6002	N6004	1072.02	350
TCAPT	RIO	NETAP	5	600
TPOLIND	N1005	NPOLIND	5	500
TBRION	DBRION	NBRION	19.47	300
TACOST	DACOSTA	NACO	5	300
B001	DETAP	N0001	#N/A	#N/A Pump
B002	DALDEA	N4001	#N/A	#N/A Pump
B003	N5003	N5002	#N/A	#N/A Pump
V001	NETAP	N0000	#N/A	600 Valve
LCAU2	N1001	N1002	#N/A	100000 Valve
LCAU03	N1004	N2001	#N/A	250 Valve
2	N1006	N1007	#N/A	450 Valve
3	N2002	N2003	#N/A	250 Valve

Page 2

Ames

Energy Usage:

Pump	Usage Factor	Avg. Effic.	Kw-hr /m3	Avg. Kw	Peak Kw	Cost /day
B001	49.38	100.00	0.50	661.12	664.40	480.80
B002	16.25	75.00	0.29	51.50	52.41	14.00
B003	0.00	0.00	0.00	0.00	0.00	0.00

Demand Charge: 0.00
Total Cost: 494.80

Node Results at 0:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	180.01	36.07	0.00
N0001	0.00	365.10	221.16	0.00
N0002	0.00	325.95	6.65	0.00
N1001	0.00	325.23	10.32	0.00
N1002	0.00	325.23	10.32	0.00
N1003	0.00	324.92	5.62	0.00
N1004	0.00	319.20	108.75	0.00
N1005	0.00	318.91	103.61	0.00
N1006	0.00	307.69	98.70	0.00
N1007	0.00	212.63	3.65	0.00
N2001	0.00	319.20	108.75	0.00
N2002	0.00	151.59	4.38	0.00
N2003	0.00	151.59	4.45	0.00
N3001	0.00	212.23	3.38	0.00
N3002	0.00	207.25	52.82	0.00
N3003	0.00	168.72	3.08	0.00
N4001	0.00	248.17	81.55	0.00
N4002	0.00	232.87	2.87	0.00
N5001	0.00	168.62	2.26	0.00
N5002	0.00	168.62	112.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	197.82	125.91	0.00
N6002	0.00	193.54	160.05	0.00
N6003	0.00	191.86	159.41	0.00
N6004	14.46	193.45	142.50	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	318.91	103.61	0.00
NBRION	4.70	150.50	1.00	0.00
NACO	2.00	232.43	2.00	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	47.57	232.43	2.00	0.00 Tank
DBRION	169.67	150.50	1.00	0.00 Tank
DREG	-27.58	325.25	5.00	0.00 Tank

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Ames

Node Results at 0:00 Hrs: (continued)

Node	Demand	Head	Pressure	Quality
ID	LPS	m	m	
DETAP	-13.29	180.00	5.00	0.00 Tank
DCASTI	79.54	212.24	2.00	0.00 Tank
DALDEA	66.42	168.62	2.00	0.00 Tank

Link Results at 0:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s		m/km	
T0000	350.00	1.24		2.75	Open
T0001	363.29	1.85		7.84	Open
T0002	363.29	1.85		7.84	Open
T1001	390.87	1.38		3.43	Open
T1002	390.87	1.38		3.43	Open
T1003	390.87	1.38		3.43	Open
T1004	216.50	1.10		2.78	Open
T1005	210.00	1.32		4.60	Open
T1006	210.00	1.67		598.15	Open
T2001	174.37	3.55		72.82	Open
T2002	174.37	3.55		72.82	Open
T3001	130.46	1.36		6.78	Open
T3002	130.46	1.36		6.78	Open
T3003	20.01	1.00		10.36	Open
T3004	20.01	1.00		10.36	Open
T4001	49.57	1.58		19.35	Open
T4002	49.57	1.58		19.35	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	110.45	1.15		4.86	Open
T6002	110.45	1.15		4.86	Open
T7001	-95.99	1.36		8.35	Open
T7002	-95.99	1.36		8.35	Open
T7003	14.46	0.15		0.08	Open
TCAPT	350.00	1.24		2.75	Open
TPOLIND	6.50	0.03		0.01	Open
TBRION	4.70	0.07		0.02	Open
TACOST	2.00	0.03		0.00	Open
B001	363.29	0.00		-185.10	Open Pump
B002	49.57	0.00		-79.55	Open Pump
B003	0.00	0.00		0.00	Closed Pump
V001	350.00	1.24		19.98	Active Valve
LCAU2	390.87	0.00		0.00	Open Valve
LCAU03	174.37	3.55		0.00	Open Valve
2	210.00	1.32		95.05	Active Valve
3	174.37	3.55		0.00	Open Valve

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Ames

Node Results at 1:00 Hrs:

Node	Demand	Head	Pressure	Quality
------	--------	------	----------	---------

ID	LPS	m	m	
N0000	0.00	179.95	36.01	0.00
N0001	0.00	365.14	221.20	0.00
N0002	0.00	326.05	6.75	0.00
N1001	0.00	325.35	10.43	0.00
N1002	0.00	325.35	10.43	0.00
N1003	0.00	325.28	5.98	0.00
N1004	0.00	324.04	113.59	0.00
N1005	0.00	324.04	108.74	0.00
N1006	0.00	324.04	115.06	0.00
N1007	0.00	324.04	115.06	0.00
N2001	0.00	324.04	113.59	0.00
N2002	0.00	154.01	6.79	0.00
N2003	0.00	154.01	6.87	0.00
N3001	0.00	212.54	3.69	0.00
N3002	0.00	207.63	53.19	0.00
N3003	0.00	169.65	4.02	0.00
N4001	0.00	248.94	82.32	0.00
N4002	0.00	233.33	3.33	0.00
N5001	0.00	169.55	3.19	0.00
N5002	0.00	169.55	113.32	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	198.32	126.41	0.00
N6002	0.00	194.10	160.61	0.00
N6003	0.00	192.45	159.99	0.00
N6004	14.46	194.01	143.06	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	324.04	108.74	0.00
NBRION	4.70	152.90	3.40	0.00
NACO	2.00	232.89	2.45	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	48.07	232.89	2.45	0.00 Tank
DBRION	170.93	152.90	3.40	0.00 Tank
DREG	180.90	325.35	5.10	0.00 Tank
DETAP	-13.03	179.95	4.95	0.00 Tank
DCASTI	-129.58	212.55	2.31	0.00 Tank
DALDEA	65.05	169.55	2.94	0.00 Tank

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Link Results at 1:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s		m/km	
T0000	350.00	1.24		2.75	Open
T0001	363.03	1.85		7.83	Open
T0002	363.03	1.85		7.83	Open
T1001	182.13	0.64		0.74	Open
T1002	182.13	0.64		0.75	Open
T1003	182.13	0.64		0.75	Open
T1004	6.50	0.03		0.00	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	175.63	3.58		73.87	Open

T2002	175.63	3.58	73.87	Open
T3001	129.58	1.35	6.68	Open
T3002	129.58	1.35	6.68	Open
T3003	19.87	0.99	10.21	Open
T3004	19.87	0.99	10.21	Open
T4001	50.07	1.59	19.74	Open
T4002	50.07	1.59	19.74	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	109.72	1.14	4.79	Open
T6002	109.72	1.14	4.79	Open
T7001	-95.25	1.35	8.22	Open
T7002	-95.25	1.35	8.22	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.00	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	363.03	0.00	-185.20	Open Pump
B002	50.07	0.00	-79.38	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.03	Active Valve
LCAU2	182.13	0.00	0.00	Open Valve
LCAU03	175.63	3.58	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	175.63	3.58	0.00	Open Valve

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Node Results at 2:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.90	35.96	0.00
N0001	0.00	365.76	221.82	0.00
N0002	0.00	327.06	7.75	0.00
N1001	0.00	326.37	11.45	0.00
N1002	0.00	326.37	11.45	0.00
N1003	0.00	326.37	7.06	0.00
N1004	0.00	326.37	115.92	0.00
N1005	0.00	326.36	111.07	0.00
N1006	0.00	326.36	117.38	0.00
N1007	0.00	326.36	117.38	0.00
N2001	0.00	326.37	115.92	0.00
N2002	0.00	326.37	179.15	0.00
N2003	0.00	326.37	179.22	0.00
N3001	0.00	210.51	1.67	0.00
N3002	0.00	205.92	51.48	0.00
N3003	0.00	170.54	4.90	0.00
N4001	0.00	249.67	83.06	0.00
N4002	0.00	233.79	3.79	0.00
N5001	0.00	170.44	4.08	0.00
N5002	0.00	170.44	114.21	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	197.19	125.28	0.00

N6002	0.00	193.23	159.74	0.00
N6003	0.00	191.69	159.24	0.00
N6004	14.46	193.14	142.19	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	326.36	111.07	0.00
NBRION	4.70	153.35	3.85	0.00
NACO	2.00	233.34	2.91	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	48.51	233.34	2.91	0.00 Tank
DBRION	-4.70	153.35	3.85	0.00 Tank
DREG	354.74	326.37	6.12	0.00 Tank
DETAP	-11.24	179.90	4.90	0.00 Tank
DCASTI	-125.42	210.53	0.29	0.00 Tank
DALDEA	60.44	170.44	3.83	0.00 Tank

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Link Results at 2:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	361.24	1.84	7.75	Open
T0002	361.24	1.84	7.75	Open
T1001	6.50	0.02	0.01	Open
T1002	6.50	0.02	0.00	Open
T1003	6.50	0.02	0.00	Open
T1004	6.50	0.03	0.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	125.42	1.30	6.26	Open
T3002	125.42	1.30	6.26	Open
T3003	19.18	0.95	9.52	Open
T3004	19.18	0.95	9.52	Open
T4001	50.51	1.61	20.08	Open
T4002	50.51	1.61	20.08	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	106.24	1.10	4.49	Open
T6002	106.24	1.10	4.49	Open
T7001	-91.78	1.30	7.63	Open
T7002	-91.78	1.30	7.63	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.01	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	361.24	0.00	-185.87	Open Pump
B002	50.51	0.00	-79.23	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.08	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve

LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 3:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.86	35.92	0.00
N0001	0.00	366.05	222.11	0.00
N0002	0.00	327.54	8.24	0.00
N1001	0.00	326.85	11.93	0.00
N1002	0.00	326.85	11.93	0.00
N1003	0.00	326.75	7.45	0.00
N1004	0.00	325.00	114.55	0.00
N1005	0.00	324.71	109.41	0.00
N1006	0.00	313.49	104.50	0.00
N1007	0.00	212.92	3.94	0.00
N2001	0.00	325.00	114.55	0.00
N2002	0.00	325.00	177.78	0.00
N2003	0.00	325.00	177.85	0.00
N3001	0.00	212.51	3.67	0.00
N3002	0.00	207.72	53.28	0.00
N3003	0.00	170.68	5.05	0.00
N4001	0.00	249.93	83.31	0.00
N4002	0.00	234.25	4.25	0.00
N5001	0.00	170.58	4.22	0.00
N5002	0.00	170.58	114.35	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	198.62	126.71	0.00
N6002	0.00	194.49	161.01	0.00
N6003	0.00	192.88	160.42	0.00
N6004	14.46	194.40	143.45	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	324.71	109.41	0.00
NBRION	4.70	153.28	3.78	0.00
NACO	2.00	233.80	3.37	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	48.19	233.80	3.37	0.00 Tank
DBRION	-4.70	153.28	3.78	0.00 Tank
DREG	143.84	326.85	6.60	0.00 Tank
DETAP	-10.34	179.85	4.85	0.00 Tank
DCASTI	81.40	212.53	2.29	0.00 Tank
DALDEA	63.95	170.58	3.97	0.00 Tank

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Link Results at 3:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
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T0000	350.00	1.24	2.75	Open
T0001	360.34	1.84	7.71	Open
T0002	360.34	1.84	7.72	Open
T1001	216.50	0.77	1.05	Open
T1002	216.50	0.77	1.05	Open
T1003	216.50	0.77	1.05	Open
T1004	216.50	1.10	2.79	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.12	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	128.60	1.34	6.54	Open
T3002	128.60	1.34	6.54	Open
T3003	20.17	1.00	9.96	Open
T3004	20.17	1.00	9.96	Open
T4001	50.19	1.60	19.83	Open
T4002	50.19	1.60	19.83	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	108.43	1.13	4.68	Open
T6002	108.43	1.13	4.68	Open
T7001	-93.97	1.33	8.00	Open
T7002	-93.97	1.33	8.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.00	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	360.34	0.00	-186.20	Open Pump
B002	50.19	0.00	-79.34	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.13	Active Valve
LCAU2	216.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	100.57	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 4:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.82	35.88	0.00
N0001	0.00	366.64	222.70	0.00
N0002	0.00	328.48	9.18	0.00
N1001	0.00	327.80	12.89	0.00
N1002	0.00	327.80	12.89	0.00
N1003	0.00	327.80	8.50	0.00
N1004	0.00	327.80	117.36	0.00
N1005	0.00	327.80	112.51	0.00
N1006	0.00	327.80	118.82	0.00
N1007	0.00	327.80	118.82	0.00
N2001	0.00	327.80	117.36	0.00
N2002	0.00	327.80	180.58	0.00

N2003	0.00	327.80	180.66	0.00	
N3001	0.00	212.36	3.52	0.00	
N3002	0.00	207.58	53.15	0.00	
N3003	0.00	170.66	5.03	0.00	
N4001	0.00	250.07	83.46	0.00	
N4002	0.00	234.69	4.69	0.00	
N5001	0.00	170.57	4.21	0.00	
N5002	0.00	170.57	114.33	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	198.51	126.60	0.00	
N6002	0.00	194.40	160.91	0.00	
N6003	0.00	192.79	160.33	0.00	
N6004	14.46	194.31	143.36	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	6.50	327.80	112.51	0.00	
NBRION	4.70	153.21	3.71	0.00	
NACO	2.00	234.26	3.82	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	47.71	234.26	3.82	0.00	Tank
DBRION	-4.70	153.21	3.71	0.00	Tank
DREG	352.16	327.80	7.55	0.00	Tank
DETAP	-8.66	179.81	4.81	0.00	Tank
DCASTI	-127.91	212.38	2.14	0.00	Tank
DALDEA	63.74	170.57	3.95	0.00	Tank

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Link Results at 4:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s		m/km	
T0000	350.00	1.24		2.75	Open
T0001	358.66	1.83		7.64	Open
T0002	358.66	1.83		7.64	Open
T1001	6.50	0.02		0.00	Open
T1002	6.50	0.02		0.00	Open
T1003	6.50	0.02		0.00	Open
T1004	6.50	0.03		0.00	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	0.00	0.00		0.00	Open
T2002	0.00	0.00		0.00	Closed
T3001	127.91	1.33		6.52	Open
T3002	127.91	1.33		6.51	Open
T3003	19.59	0.97		9.93	Open
T3004	19.59	0.97		9.93	Open
T4001	49.71	1.58		19.45	Open
T4002	49.71	1.58		19.45	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	108.32	1.13		4.67	Open
T6002	108.32	1.13		4.67	Open
T7001	-93.85	1.33		7.98	Open
T7002	-93.85	1.33		7.98	Open

T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.01	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	358.66	0.00	-186.83	Open Pump
B002	49.71	0.00	-79.51	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.17	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 5:00 Hrs:

Node	Demand	Head	Pressure	Quality
ID	LPS	m	m	
N0000	0.00	179.79	35.85	0.00
N0001	0.00	367.33	223.39	0.00
N0002	0.00	329.59	10.29	0.00
N1001	0.00	328.92	14.01	0.00
N1002	0.00	328.92	14.01	0.00
N1003	0.00	328.92	9.62	0.00
N1004	0.00	328.89	118.45	0.00
N1005	0.00	328.89	113.59	0.00
N1006	0.00	328.89	119.91	0.00
N1007	0.00	328.89	119.91	0.00
N2001	0.00	328.89	118.45	0.00
N2002	0.00	328.89	181.67	0.00
N2003	0.00	328.89	181.75	0.00
N3001	0.00	211.33	2.49	0.00
N3002	0.00	205.37	50.93	0.00
N3003	0.00	170.67	5.03	0.00
N4001	0.00	250.24	83.62	0.00
N4002	0.00	235.13	5.13	0.00
N5001	0.00	170.58	4.22	0.00
N5002	0.00	170.58	114.34	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	193.50	121.59	0.00
N6002	0.00	188.11	154.63	0.00
N6003	0.00	186.93	154.48	0.00
N6004	43.39	187.31	136.36	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	26.00	328.89	113.59	0.00
NBRION	14.10	153.14	3.64	0.00
NACO	6.00	234.71	4.27	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	43.25	234.71	4.27	0.00 Tank
DBRION	-14.10	153.15	3.65	0.00 Tank
DREG	330.70	328.92	8.67	0.00 Tank
DETAP	-6.70	179.78	4.78	0.00 Tank

DCASTI -142.97 211.35 1.11 0.00 Tank
DALDEA 50.33 170.58 3.96 0.00 Tank

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Link Results at 5:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	356.70	1.82	7.56	Open
T0002	356.70	1.82	7.56	Open
T1001	26.00	0.09	0.01	Open
T1002	26.00	0.09	0.02	Open
T1003	26.00	0.09	0.02	Open
T1004	26.00	0.13	0.04	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	142.97	1.49	8.13	Open
T3002	142.97	1.49	8.13	Open
T3003	19.08	0.95	9.33	Open
T3004	19.08	0.95	9.33	Open
T4001	49.25	1.57	19.10	Open
T4002	49.25	1.57	19.10	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	123.89	1.29	6.11	Open
T6002	123.89	1.29	6.11	Open
T7001	-80.50	1.14	5.87	Open
T7002	-80.50	1.14	5.87	Open
T7003	43.39	0.45	0.75	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	26.00	0.13	0.04	Open
TBRION	14.10	0.20	0.18	Open
TACOST	6.00	0.08	0.03	Open
B001	356.70	0.00	-187.55	Open Pump
B002	49.25	0.00	-79.66	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.20	Active Valve
LCAU2	26.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 6:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	180.90	36.96	0.00

N0001	0.00	328.84	184.90	0.00
N0002	0.00	328.84	9.54	0.00
N1001	0.00	328.83	13.92	0.00
N1002	0.00	328.83	13.92	0.00
N1003	0.00	328.68	9.38	0.00
N1004	0.00	325.85	115.40	0.00
N1005	0.00	325.38	110.08	0.00
N1006	0.00	314.16	105.17	0.00
N1007	0.00	211.49	2.51	0.00
N2001	0.00	325.85	115.40	0.00
N2002	0.00	325.85	178.63	0.00
N2003	0.00	325.85	178.70	0.00
N3001	0.00	211.07	2.23	0.00
N3002	0.00	203.88	49.44	0.00
N3003	0.00	170.67	5.04	0.00
N4001	0.00	250.39	83.77	0.00
N4002	0.00	235.54	5.54	0.00
N5001	0.00	170.59	4.23	0.00
N5002	0.00	170.59	114.35	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	189.09	117.17	0.00
N6002	0.00	182.37	148.89	0.00
N6003	0.00	181.58	149.12	0.00
N6004	72.32	180.14	129.19	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	65.00	325.38	110.08	0.00
NBRION	23.50	152.94	3.44	0.00
NACO	10.00	235.11	4.68	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	38.84	235.11	4.68	0.00 Tank
DBRION	-23.50	152.95	3.45	0.00 Tank
DREG	-275.00	328.84	8.59	0.00 Tank
DETAP	350.00	180.89	5.89	0.00 Tank
DCASTI	53.09	211.10	0.86	0.00 Tank
DALDEA	35.75	170.59	3.97	0.00 Tank

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Link Results at 6:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	275.00	0.97	1.70	Open
T1002	275.00	0.97	1.70	Open
T1003	275.00	0.97	1.70	Open
T1004	275.00	1.40	4.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	156.91	1.63	9.80	Open

T3002	156.91	1.63	9.80	Open
T3003	18.58	0.92	8.93	Open
T3004	18.58	0.92	8.93	Open
T4001	48.84	1.55	18.78	Open
T4002	48.84	1.55	18.78	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	138.33	1.44	7.62	Open
T6002	138.33	1.44	7.62	Open
T7001	-66.01	0.93	3.95	Open
T7002	-66.01	0.93	3.95	Open
T7003	72.32	0.75	2.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	23.50	0.33	0.50	Open
TACOST	10.00	0.14	0.09	Open
B001	0.00	0.00	0.00	Closed Pump
B002	48.84	0.00	-79.80	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	19.09	Active Valve
LCAU2	275.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	102.67	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 7:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.33	38.39	0.00
N0001	0.00	327.97	184.03	0.00
N0002	0.00	327.97	8.67	0.00
N1001	0.00	327.96	13.04	0.00
N1002	0.00	327.96	13.04	0.00
N1003	0.00	327.78	8.47	0.00
N1004	0.00	324.38	113.93	0.00
N1005	0.00	323.82	108.53	0.00
N1006	0.00	312.60	103.62	0.00
N1007	0.00	212.88	3.90	0.00
N2001	0.00	324.38	113.93	0.00
N2002	0.00	324.38	177.16	0.00
N2003	0.00	324.38	177.24	0.00
N3001	0.00	212.46	3.61	0.00
N3002	0.00	203.63	49.20	0.00
N3003	0.00	170.69	5.06	0.00
N4001	0.00	250.53	83.91	0.00
N4002	0.00	235.90	5.90	0.00
N5001	0.00	170.60	4.24	0.00
N5002	0.00	170.60	114.37	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	184.99	113.08	0.00
N6002	0.00	176.53	143.04	0.00

N6003	0.00	176.13	143.68	0.00
N6004	108.48	171.51	120.56	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	91.00	323.82	108.52	0.00
NBRION	35.25	152.59	3.09	0.00
NACO	15.00	235.48	5.05	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	33.48	235.48	5.05	0.00 Tank
DBRION	-35.25	152.61	3.12	0.00 Tank
DREG	-301.00	327.97	7.72	0.00 Tank
DETAP	350.00	182.32	7.32	0.00 Tank
DCASTI	36.20	212.49	2.25	0.00 Tank
DALDEA	16.84	170.60	3.99	0.00 Tank

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Link Results at 7:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	301.00	1.06	2.04	Open
T1002	301.00	1.06	2.04	Open
T1003	301.00	1.06	2.04	Open
T1004	301.00	1.53	5.38	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	173.80	1.81	12.02	Open
T3002	173.80	1.81	12.02	Open
T3003	18.50	0.92	8.86	Open
T3004	18.50	0.92	8.86	Open
T4001	48.48	1.54	18.50	Open
T4002	48.48	1.54	18.50	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	155.30	1.61	9.60	Open
T6002	155.30	1.61	9.60	Open
T7001	-46.82	0.66	1.98	Open
T7002	-46.82	0.66	1.98	Open
T7003	108.48	1.13	4.68	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	91.00	0.46	0.50	Open
TBRION	35.25	0.50	1.13	Open
TACOST	15.00	0.21	0.20	Open
B001	0.00	0.00	0.00	Closed Pump
B002	48.48	0.00	-79.92	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.66	Active Valve
LCAU2	301.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve

2 210.00 1.32 99.72 Active Valve
3 0.00 0.00 0.00 Open Valve

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Node Results at 8:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	327.19	183.25	0.00
N0002	0.00	327.19	7.89	0.00
N1001	0.00	327.19	12.28	0.00
N1002	0.00	327.19	12.28	0.00
N1003	0.00	327.16	7.86	0.00
N1004	0.00	326.65	116.20	0.00
N1005	0.00	326.56	111.27	0.00
N1006	0.00	326.56	117.58	0.00
N1007	0.00	326.56	117.58	0.00
N2001	0.00	326.65	116.20	0.00
N2002	0.00	326.65	179.43	0.00
N2003	0.00	326.65	179.51	0.00
N3001	0.00	212.56	3.71	0.00
N3002	0.00	203.90	49.46	0.00
N3003	0.00	203.90	38.26	0.00
N4001	0.00	235.70	69.09	0.00
N4002	0.00	235.70	5.70	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	181.00	109.09	0.00
N6002	0.00	170.61	137.12	0.00
N6003	0.00	170.61	138.15	0.00
N6004	173.57	157.75	106.80	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	117.00	326.56	111.27	0.00
NBRION	56.40	152.06	2.56	0.00
NACO	24.00	235.70	5.27	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-24.00	235.70	5.27	0.00 Tank
DBRION	-56.40	152.12	2.62	0.00 Tank
DREG	-117.00	327.19	6.94	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-172.20	212.59	2.34	0.00 Tank
DALDEA	-1.36	170.62	4.00	0.00 Tank

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Link Results at 8:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed

T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	117.00	0.41	0.31	Open
T1002	117.00	0.41	0.31	Open
T1003	117.00	0.41	0.31	Open
T1004	117.00	0.60	0.81	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	172.20	1.79	11.79	Open
T3002	172.20	1.79	11.79	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	172.20	1.79	11.79	Open
T6002	172.20	1.79	11.79	Open
T7001	1.36	0.02	0.00	Open
T7002	1.36	0.02	0.00	Open
T7003	173.57	1.80	11.99	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	117.00	0.60	0.81	Open
TBRION	56.40	0.80	2.88	Open
TACOST	24.00	0.34	0.52	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	117.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 9:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	326.67	182.73	0.00
N0002	0.00	326.67	7.37	0.00
N1001	0.00	326.65	11.74	0.00
N1002	0.00	326.65	11.74	0.00
N1003	0.00	326.39	7.08	0.00
N1004	0.00	321.36	110.92	0.00
N1005	0.00	320.54	105.24	0.00
N1006	0.00	309.32	100.33	0.00
N1007	0.00	210.97	1.98	0.00
N2001	0.00	321.36	110.92	0.00
N2002	0.00	321.36	174.15	0.00
N2003	0.00	321.36	174.22	0.00

N3001	0.00	210.54	1.69	0.00	
N3002	0.00	201.06	46.63	0.00	
N3003	0.00	170.69	5.06	0.00	
N4001	0.00	235.48	68.86	0.00	
N4002	0.00	235.48	5.48	0.00	
N5001	0.00	170.61	4.25	0.00	
N5002	0.00	170.61	114.37	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	180.70	108.78	0.00	
N6002	0.00	171.46	137.97	0.00	
N6003	0.00	171.40	138.94	0.00	
N6004	144.64	162.53	111.58	0.00	
NETAP	0.00	200.00	51.00	0.00	
NPOLIND	156.00	320.53	105.24	0.00	
NBRION	47.00	151.28	1.78	0.00	
NACO	20.00	235.48	5.04	0.00	
RIO	0.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-20.00	235.48	5.04	0.00	Tank
DBRION	-47.00	151.32	1.82	0.00	Tank
DREG	-366.00	326.67	6.42	0.00	Tank
DETAP	0.00	183.00	8.00	0.00	Tank
DCASTI	29.82	210.58	0.33	0.00	Tank
DALDEA	35.54	170.61	3.99	0.00	Tank

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Link Results at 9:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	366.00	1.29	3.01	Open
T1002	366.00	1.29	3.01	Open
T1003	366.00	1.29	3.01	Open
T1004	366.00	1.86	7.96	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	180.18	1.87	12.91	Open
T3002	180.18	1.87	12.91	Open
T3003	17.88	0.89	8.17	Open
T3004	17.88	0.89	8.17	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	162.30	1.69	10.49	Open
T6002	162.30	1.69	10.49	Open
T7001	-17.66	0.25	0.28	Open
T7002	-17.66	0.25	0.28	Open
T7003	144.64	1.50	8.33	Open

TCAPT	0.00	0.00	0.00	Open
TPOLIND	156.00	0.79	1.44	Open
TBRION	47.00	0.66	2.00	Open
TACOST	20.00	0.28	0.36	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	366.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	98.35	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 10:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	325.51	181.57	0.00
N0002	0.00	325.51	6.21	0.00
N1001	0.00	325.50	10.58	0.00
N1002	0.00	325.50	10.58	0.00
N1003	0.00	325.28	5.98	0.00
N1004	0.00	321.27	110.83	0.00
N1005	0.00	320.61	105.32	0.00
N1006	0.00	309.39	100.41	0.00
N1007	0.00	212.00	3.01	0.00
N2001	0.00	321.27	110.83	0.00
N2002	0.00	321.27	174.06	0.00
N2003	0.00	321.27	174.13	0.00
N3001	0.00	211.59	2.75	0.00
N3002	0.00	208.16	53.72	0.00
N3003	0.00	208.16	42.52	0.00
N4001	0.00	235.29	68.67	0.00
N4002	0.00	235.29	5.29	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	199.06	127.14	0.00
N6002	0.00	194.93	161.44	0.00
N6003	0.00	194.93	162.47	0.00
N6004	108.48	189.91	138.96	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	117.00	320.61	105.32	0.00
NBRION	35.25	150.63	1.13	0.00
NACO	15.00	235.29	4.85	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	235.29	4.86	0.00 Tank
DBRION	-35.25	150.65	1.15	0.00 Tank
DREG	-327.00	325.51	5.26	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	101.52	211.61	1.36	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 10:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	327.00	1.16	2.40	Open
T1002	327.00	1.16	2.40	Open
T1003	327.00	1.16	2.40	Open
T1004	327.00	1.67	6.35	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	108.48	1.13	4.69	Open
T3002	108.48	1.13	4.68	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	108.48	1.13	4.68	Open
T6002	108.48	1.13	4.68	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	108.48	1.13	4.68	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	117.00	0.60	0.82	Open
TBRION	35.25	0.50	1.13	Open
TACOST	15.00	0.21	0.20	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	327.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	97.40	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 11:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	324.13	180.18	0.00
N0002	0.00	324.13	4.82	0.00

N1001	0.00	324.11	9.20	0.00
N1002	0.00	324.11	9.20	0.00
N1003	0.00	323.94	4.64	0.00
N1004	0.00	320.76	110.31	0.00
N1005	0.00	320.67	105.38	0.00
N1006	0.00	320.67	111.69	0.00
N1007	0.00	320.67	111.69	0.00
N2001	0.00	320.76	110.31	0.00
N2002	0.00	152.93	5.71	0.00
N2003	0.00	152.93	5.79	0.00
N3001	0.00	213.06	4.21	0.00
N3002	0.00	210.47	56.04	0.00
N3003	0.00	210.47	44.84	0.00
N4001	0.00	235.15	68.53	0.00
N4002	0.00	235.15	5.15	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	203.64	131.73	0.00
N6002	0.00	200.54	167.05	0.00
N6003	0.00	200.54	168.08	0.00
N6004	94.02	196.77	145.82	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	117.00	320.67	105.38	0.00
NBRION	30.55	151.82	2.32	0.00
NACO	13.00	235.15	4.71	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	235.15	4.71	0.00 Tank
DBRION	143.94	151.83	2.34	0.00 Tank
DREG	-291.49	324.13	3.88	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-94.02	213.07	2.82	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 11:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	291.49	1.03	1.91	Open
T1002	291.49	1.03	1.91	Open
T1003	291.49	1.03	1.91	Open
T1004	117.00	0.60	0.81	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	174.49	3.55	72.92	Open
T2002	174.49	3.55	72.92	Open
T3001	94.02	0.98	3.52	Open
T3002	94.02	0.98	3.52	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed

T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	94.02	0.98	3.52	Open
T6002	94.02	0.98	3.52	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	94.02	0.98	3.52	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	117.00	0.60	0.82	Open
TBRION	30.55	0.43	0.85	Open
TACOST	13.00	0.18	0.15	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	291.49	0.00	0.00	Open Valve
LCAU03	174.49	3.55	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	174.49	3.55	0.00	Open Valve

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Node Results at 12:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	323.33	179.39	0.00
N0002	0.00	323.33	4.03	0.00
N1001	0.00	323.33	8.41	0.00
N1002	0.00	323.33	8.41	0.00
N1003	0.00	323.32	4.02	0.00
N1004	0.00	323.16	112.72	0.00
N1005	0.00	323.13	107.84	0.00
N1006	0.00	323.13	114.15	0.00
N1007	0.00	323.13	114.15	0.00
N2001	0.00	323.16	112.72	0.00
N2002	0.00	323.16	175.94	0.00
N2003	0.00	323.16	176.02	0.00
N3001	0.00	211.56	2.72	0.00
N3002	0.00	208.12	53.69	0.00
N3003	0.00	208.12	42.49	0.00
N4001	0.00	235.02	68.41	0.00
N4002	0.00	235.02	5.02	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	199.03	127.11	0.00
N6002	0.00	194.90	161.41	0.00
N6003	0.00	194.90	162.44	0.00
N6004	108.48	189.88	138.93	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	65.00	323.13	107.84	0.00

NBRION	35.25	153.28	3.78	0.00
NACO	15.00	235.02	4.59	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	235.02	4.59	0.00 Tank
DBRION	-35.25	153.30	3.80	0.00 Tank
DREG	-65.00	323.33	3.08	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-108.48	211.57	1.33	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 12:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	65.00	0.23	0.10	Open
T1002	65.00	0.23	0.09	Open
T1003	65.00	0.23	0.09	Open
T1004	65.00	0.33	0.25	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	108.48	1.13	4.69	Open
T3002	108.48	1.13	4.68	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	108.48	1.13	4.68	Open
T6002	108.48	1.13	4.68	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	108.48	1.13	4.68	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	35.25	0.50	1.13	Open
TACOST	15.00	0.21	0.20	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	65.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 13:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	322.89	178.95	0.00
N0002	0.00	322.89	3.59	0.00
N1001	0.00	322.88	7.97	0.00
N1002	0.00	322.88	7.97	0.00
N1003	0.00	322.73	3.43	0.00
N1004	0.00	319.90	109.45	0.00
N1005	0.00	319.43	104.14	0.00
N1006	0.00	308.21	99.23	0.00
N1007	0.00	211.38	2.40	0.00
N2001	0.00	319.90	109.45	0.00
N2002	0.00	319.90	172.68	0.00
N2003	0.00	319.90	172.76	0.00
N3001	0.00	210.98	2.13	0.00
N3002	0.00	206.03	51.59	0.00
N3003	0.00	206.03	40.39	0.00
N4001	0.00	234.88	68.26	0.00
N4002	0.00	234.88	4.88	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	192.93	121.01	0.00
N6002	0.00	186.98	153.49	0.00
N6003	0.00	186.98	154.53	0.00
N6004	130.18	179.75	128.80	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	65.00	319.43	104.14	0.00
NBRION	42.30	152.77	3.27	0.00
NACO	18.00	234.88	4.45	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-18.00	234.88	4.45	0.00 Tank
DBRION	-42.30	152.80	3.30	0.00 Tank
DREG	-275.00	322.89	2.64	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	79.82	211.00	0.75	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 13:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	275.00	0.97	1.70	Open

T1002	275.00	0.97	1.70	Open
T1003	275.00	0.97	1.70	Open
T1004	275.00	1.40	4.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	130.18	1.35	6.75	Open
T3002	130.18	1.35	6.75	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	130.18	1.35	6.75	Open
T6002	130.18	1.35	6.75	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	130.18	1.35	6.75	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	42.30	0.60	1.62	Open
TACOST	18.00	0.25	0.29	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	275.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	96.82	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 14:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	322.02	178.08	0.00
N0002	0.00	322.02	2.72	0.00
N1001	0.00	322.01	7.10	0.00
N1002	0.00	322.01	7.10	0.00
N1003	0.00	321.86	2.56	0.00
N1004	0.00	319.02	108.58	0.00
N1005	0.00	318.56	103.26	0.00
N1006	0.00	307.34	98.35	0.00
N1007	0.00	212.65	3.67	0.00
N2001	0.00	319.02	108.58	0.00
N2002	0.00	319.02	171.81	0.00
N2003	0.00	319.02	171.88	0.00
N3001	0.00	212.24	3.40	0.00
N3002	0.00	207.29	52.86	0.00

N3003	0.00	207.29	41.66	0.00	
N4001	0.00	234.71	68.09	0.00	
N4002	0.00	234.71	4.71	0.00	
N5001	0.00	170.62	4.26	0.00	
N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	194.19	122.28	0.00	
N6002	0.00	188.25	154.76	0.00	
N6003	0.00	188.25	155.79	0.00	
N6004	130.18	181.02	130.07	0.00	
NETAP	0.00	200.00	51.00	0.00	
NPOLIND	65.00	318.56	103.26	0.00	
NBRION	42.30	152.17	2.67	0.00	
NACO	18.00	234.71	4.28	0.00	
RIO	0.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-18.00	234.71	4.28	0.00	Tank
DBRION	-42.30	152.20	2.70	0.00	Tank
DREG	-275.00	322.02	1.77	0.00	Tank
DETAP	0.00	183.00	8.00	0.00	Tank
DCASTI	79.82	212.26	2.02	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 14:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	275.00	0.97	1.70	Open
T1002	275.00	0.97	1.70	Open
T1003	275.00	0.97	1.70	Open
T1004	275.00	1.40	4.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	130.18	1.35	6.75	Open
T3002	130.18	1.35	6.75	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	130.18	1.35	6.75	Open
T6002	130.18	1.35	6.75	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	130.18	1.35	6.75	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	65.00	0.33	0.25	Open

TBRION	42.30	0.60	1.62	Open
TACOST	18.00	0.25	0.29	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	275.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	94.68	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 15:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	321.35	177.41	0.00
N0002	0.00	321.35	2.05	0.00
N1001	0.00	321.35	6.44	0.00
N1002	0.00	321.35	6.44	0.00
N1003	0.00	321.33	2.03	0.00
N1004	0.00	320.97	110.53	0.00
N1005	0.00	320.91	105.62	0.00
N1006	0.00	320.91	111.93	0.00
N1007	0.00	320.91	111.93	0.00
N2001	0.00	320.97	110.53	0.00
N2002	0.00	320.97	173.75	0.00
N2003	0.00	320.97	173.83	0.00
N3001	0.00	212.51	3.66	0.00
N3002	0.00	209.07	54.63	0.00
N3003	0.00	209.07	43.43	0.00
N4001	0.00	234.54	67.92	0.00
N4002	0.00	234.54	4.54	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	199.97	128.06	0.00
N6002	0.00	195.84	162.35	0.00
N6003	0.00	195.84	163.39	0.00
N6004	108.48	190.82	139.87	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	97.50	320.91	105.62	0.00
NBRION	35.25	151.58	2.08	0.00
NACO	15.00	234.54	4.11	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	234.54	4.11	0.00 Tank
DBRION	-35.25	151.60	2.11	0.00 Tank
DREG	-97.50	321.35	1.10	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-108.48	212.52	2.27	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 15:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	97.50	0.34	0.22	Open
T1002	97.50	0.34	0.21	Open
T1003	97.50	0.34	0.21	Open
T1004	97.50	0.50	0.56	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	108.48	1.13	4.69	Open
T3002	108.48	1.13	4.68	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	108.48	1.13	4.68	Open
T6002	108.48	1.13	4.68	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	108.48	1.13	4.68	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	97.50	0.50	0.57	Open
TBRION	35.25	0.50	1.13	Open
TACOST	15.00	0.21	0.20	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	97.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 16:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.82	38.88	0.00
N0001	0.00	363.99	220.04	0.00
N0002	0.00	322.58	3.28	0.00
N1001	0.00	321.84	6.93	0.00
N1002	0.00	321.84	6.93	0.00

N1003	0.00	321.82	2.51	0.00
N1004	0.00	321.30	110.86	0.00
N1005	0.00	321.22	105.93	0.00
N1006	0.00	321.22	112.24	0.00
N1007	0.00	321.22	112.24	0.00
N2001	0.00	321.30	110.86	0.00
N2002	0.00	321.30	174.09	0.00
N2003	0.00	321.30	174.16	0.00
N3001	0.00	210.79	1.94	0.00
N3002	0.00	208.59	54.15	0.00
N3003	0.00	208.59	42.95	0.00
N4001	0.00	234.40	67.78	0.00
N4002	0.00	234.40	4.40	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	202.77	130.85	0.00
N6002	0.00	200.12	166.64	0.00
N6003	0.00	200.12	167.67	0.00
N6004	86.78	196.91	145.96	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	117.00	321.22	105.92	0.00
NBRION	28.20	151.09	1.59	0.00
NACO	12.00	234.40	3.96	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-12.00	234.40	3.96	0.00 Tank
DBRION	-28.20	151.11	1.61	0.00 Tank
DREG	256.60	321.85	1.60	0.00 Tank
DETAP	-23.60	182.81	7.81	0.00 Tank
DCASTI	-86.78	210.80	0.55	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 16:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	373.60	1.90	8.29	Open
T0002	373.60	1.90	8.29	Open
T1001	117.00	0.41	0.31	Open
T1002	117.00	0.41	0.31	Open
T1003	117.00	0.41	0.31	Open
T1004	117.00	0.60	0.81	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	86.78	0.90	3.00	Open
T3002	86.78	0.90	3.00	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open

T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	86.78	0.90	3.00	Open
T6002	86.78	0.90	3.00	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	86.78	0.90	3.00	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	117.00	0.60	0.82	Open
TBRION	28.20	0.40	0.72	Open
TACOST	12.00	0.17	0.13	Open
B001	373.60	0.00	-181.17	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.16	Active Valve
LCAU2	117.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 17:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.73	38.79	0.00
N0001	0.00	364.15	220.21	0.00
N0002	0.00	322.90	3.60	0.00
N1001	0.00	322.15	7.23	0.00
N1002	0.00	322.15	7.23	0.00
N1003	0.00	321.88	2.58	0.00
N1004	0.00	316.86	106.41	0.00
N1005	0.00	316.03	100.74	0.00
N1006	0.00	304.81	95.83	0.00
N1007	0.00	212.29	3.30	0.00
N2001	0.00	316.86	106.41	0.00
N2002	0.00	316.86	169.64	0.00
N2003	0.00	316.86	169.72	0.00
N3001	0.00	211.89	3.04	0.00
N3002	0.00	210.36	55.93	0.00
N3003	0.00	210.36	44.73	0.00
N4001	0.00	234.28	67.67	0.00
N4002	0.00	234.28	4.28	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	206.32	134.41	0.00
N6002	0.00	204.49	171.00	0.00
N6003	0.00	204.49	172.03	0.00
N6004	72.32	202.25	151.30	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	156.00	316.02	100.73	0.00
NBRION	23.50	150.70	1.20	0.00

NACO	10.00	234.28	3.85	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-10.00	234.28	3.85	0.00 Tank
DBRION	-23.50	150.71	1.21	0.00 Tank
DREG	6.92	322.16	1.91	0.00 Tank
DETAP	-22.92	182.72	7.72	0.00 Tank
DCASTI	137.68	211.90	1.65	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 17:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	372.92	1.90	8.26	Open
T0002	372.92	1.90	8.26	Open
T1001	366.00	1.29	3.01	Open
T1002	366.00	1.29	3.01	Open
T1003	366.00	1.29	3.01	Open
T1004	366.00	1.86	7.96	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	72.32	0.75	2.08	Open
T3002	72.32	0.75	2.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	72.32	0.75	2.08	Open
T6002	72.32	0.75	2.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	72.32	0.75	2.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	156.00	0.79	1.44	Open
TBRION	23.50	0.33	0.50	Open
TACOST	10.00	0.14	0.09	Open
B001	372.92	0.00	-181.43	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.26	Active Valve
LCAU2	366.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.52	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 18:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.63	38.69	0.00
N0001	0.00	364.18	220.24	0.00
N0002	0.00	323.00	3.70	0.00
N1001	0.00	322.26	7.34	0.00
N1002	0.00	322.26	7.34	0.00
N1003	0.00	322.11	2.81	0.00
N1004	0.00	319.34	108.90	0.00
N1005	0.00	319.29	103.99	0.00
N1006	0.00	319.29	110.30	0.00
N1007	0.00	319.29	110.30	0.00
N2001	0.00	319.34	108.90	0.00
N2002	0.00	152.38	5.16	0.00
N2003	0.00	152.38	5.24	0.00
N3001	0.00	212.64	3.80	0.00
N3002	0.00	210.06	55.62	0.00
N3003	0.00	210.06	44.42	0.00
N4001	0.00	234.19	67.57	0.00
N4002	0.00	234.19	4.19	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	203.23	131.31	0.00
N6002	0.00	200.13	166.64	0.00
N6003	0.00	200.13	167.67	0.00
N6004	94.02	196.35	145.40	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	97.50	319.28	103.99	0.00
NBRION	30.55	151.27	1.78	0.00
NACO	13.00	234.19	3.76	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	234.19	3.76	0.00 Tank
DBRION	143.49	151.29	1.79	0.00 Tank
DREG	101.07	322.27	2.02	0.00 Tank
DETAP	-22.60	182.63	7.63	0.00 Tank
DCASTI	-94.02	212.65	2.41	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 18:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	372.60	1.90	8.25	Open
T0002	372.60	1.90	8.25	Open
T1001	271.54	0.96	1.66	Open
T1002	271.54	0.96	1.66	Open
T1003	271.54	0.96	1.66	Open

T1004	97.50	0.50	0.56	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	174.04	3.55	72.54	Open
T2002	174.04	3.55	72.54	Open
T3001	94.02	0.98	3.52	Open
T3002	94.02	0.98	3.52	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	94.02	0.98	3.52	Open
T6002	94.02	0.98	3.52	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	94.02	0.98	3.52	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	97.50	0.50	0.57	Open
TBRION	30.55	0.43	0.85	Open
TACOST	13.00	0.18	0.15	Open
B001	372.60	0.00	-181.56	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.35	Active Valve
LCAU2	271.54	0.00	0.00	Open Valve
LCAU03	174.04	3.55	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	174.04	3.55	0.00	Open Valve

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Node Results at 19:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.54	38.60	0.00
N0001	0.00	364.35	220.41	0.00
N0002	0.00	323.32	4.02	0.00
N1001	0.00	322.58	7.66	0.00
N1002	0.00	322.58	7.66	0.00
N1003	0.00	322.43	3.13	0.00
N1004	0.00	319.68	109.24	0.00
N1005	0.00	319.63	104.33	0.00
N1006	0.00	319.63	110.64	0.00
N1007	0.00	319.63	110.64	0.00
N2001	0.00	319.68	109.24	0.00
N2002	0.00	154.40	7.18	0.00
N2003	0.00	154.40	7.25	0.00
N3001	0.00	211.16	2.31	0.00
N3002	0.00	210.18	55.74	0.00
N3003	0.00	210.18	44.54	0.00
N4001	0.00	234.07	67.45	0.00
N4002	0.00	234.07	4.07	0.00

N5001	0.00	170.62	4.26	0.00	
N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	207.59	135.68	0.00	
N6002	0.00	206.42	172.93	0.00	
N6003	0.00	206.42	173.96	0.00	
N6004	57.86	204.99	154.04	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	97.50	319.62	104.33	0.00	
NBRION	18.80	153.31	3.81	0.00	
NACO	8.00	234.07	3.63	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-8.00	234.07	3.63	0.00	Tank
DBRION	154.36	153.32	3.82	0.00	Tank
DREG	101.27	322.59	2.34	0.00	Tank
DETAP	-21.93	182.53	7.53	0.00	Tank
DCASTI	-57.86	211.16	0.92	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 19:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.76	Open
T0001	371.93	1.89		8.22	Open
T0002	371.93	1.89		8.22	Open
T1001	270.66	0.96		1.65	Open
T1002	270.66	0.96		1.65	Open
T1003	270.66	0.96		1.65	Open
T1004	97.50	0.50		0.56	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	173.16	3.53		71.81	Open
T2002	173.16	3.53		71.81	Open
T3001	57.86	0.60		1.33	Open
T3002	57.86	0.60		1.33	Open
T3003	0.00	0.00		0.00	Open
T3004	0.00	0.00		0.00	Closed
T4001	0.00	0.00		0.00	Open
T4002	0.00	0.00		0.00	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	57.86	0.60		1.33	Open
T6002	57.86	0.60		1.33	Open
T7001	0.00	0.00		0.00	Closed
T7002	0.00	0.00		0.00	Open
T7003	57.86	0.60		1.33	Open
TCAPT	350.00	1.24		2.75	Open
TPOLIND	97.50	0.50		0.57	Open
TBRION	18.80	0.27		0.32	Open
TACOST	8.00	0.11		0.06	Open
B001	371.93	0.00		-181.82	Open Pump

B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.44	Active Valve
LCAU2	270.66	0.00	0.00	Open Valve
LCAU03	173.16	3.53	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	173.16	3.53	0.00	Open Valve

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Node Results at 20:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.46	38.52	0.00
N0001	0.00	364.76	220.82	0.00
N0002	0.00	324.02	4.71	0.00
N1001	0.00	323.28	8.37	0.00
N1002	0.00	323.28	8.37	0.00
N1003	0.00	323.16	3.86	0.00
N1004	0.00	320.96	110.51	0.00
N1005	0.00	320.60	105.30	0.00
N1006	0.00	309.37	100.39	0.00
N1007	0.00	211.36	2.38	0.00
N2001	0.00	320.96	110.51	0.00
N2002	0.00	320.96	173.74	0.00
N2003	0.00	320.96	173.82	0.00
N3001	0.00	210.97	2.12	0.00
N3002	0.00	209.99	55.56	0.00
N3003	0.00	209.99	44.36	0.00
N4001	0.00	233.99	67.37	0.00
N4002	0.00	233.99	3.99	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	207.40	135.49	0.00
N6002	0.00	206.23	172.74	0.00
N6003	0.00	206.23	173.77	0.00
N6004	57.86	204.80	153.85	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	32.50	320.60	105.30	0.00
NBRION	18.80	153.14	3.64	0.00
NACO	8.00	233.99	3.56	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-8.00	233.99	3.56	0.00 Tank
DBRION	-18.80	153.14	3.64	0.00 Tank
DREG	128.13	323.29	3.04	0.00 Tank
DETAP	-20.63	182.45	7.45	0.00 Tank
DCASTI	152.14	210.97	0.73	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 20:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	370.63	1.89	8.16	Open
T0002	370.63	1.89	8.16	Open
T1001	242.50	0.86	1.32	Open
T1002	242.50	0.86	1.32	Open
T1003	242.50	0.86	1.32	Open
T1004	242.50	1.24	3.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	57.86	0.60	1.33	Open
T3002	57.86	0.60	1.33	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	57.86	0.60	1.33	Open
T6002	57.86	0.60	1.33	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	57.86	0.60	1.33	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	32.50	0.17	0.07	Open
TBRION	18.80	0.27	0.32	Open
TACOST	8.00	0.11	0.06	Open
B001	370.63	0.00	-182.31	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.53	Active Valve
LCAU2	242.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	98.01	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 21:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.37	38.43	0.00
N0001	0.00	365.03	221.09	0.00
N0002	0.00	324.48	5.18	0.00
N1001	0.00	323.76	8.85	0.00
N1002	0.00	323.76	8.85	0.00

N1003	0.00	323.76	4.46	0.00
N1004	0.00	323.75	113.30	0.00
N1005	0.00	323.74	108.45	0.00
N1006	0.00	323.74	114.76	0.00
N1007	0.00	323.74	114.76	0.00
N2001	0.00	323.75	113.30	0.00
N2002	0.00	323.75	176.53	0.00
N2003	0.00	323.75	176.60	0.00
N3001	0.00	213.05	4.20	0.00
N3002	0.00	212.67	58.23	0.00
N3003	0.00	212.67	47.03	0.00
N4001	0.00	233.91	67.30	0.00
N4002	0.00	233.91	3.91	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.66	139.74	0.00
N6002	0.00	211.20	177.71	0.00
N6003	0.00	211.20	178.74	0.00
N6004	36.16	210.64	159.69	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	19.50	323.74	108.45	0.00
NBRION	11.75	152.87	3.38	0.00
NACO	5.00	233.91	3.48	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-5.00	233.91	3.48	0.00 Tank
DBRION	-11.75	152.88	3.38	0.00 Tank
DREG	350.22	323.76	3.51	0.00 Tank
DETAP	-19.72	182.37	7.37	0.00 Tank
DCASTI	-36.16	213.05	2.81	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 21:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	369.72	1.88	8.12	Open
T0002	369.72	1.88	8.12	Open
T1001	19.50	0.07	0.01	Open
T1002	19.50	0.07	0.01	Open
T1003	19.50	0.07	0.01	Open
T1004	19.50	0.10	0.02	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	36.16	0.38	0.52	Open
T3002	36.16	0.38	0.52	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open

T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	36.16	0.38	0.52	Open
T6002	36.16	0.38	0.52	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	36.16	0.38	0.52	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	19.50	0.10	0.02	Open
TBRION	11.75	0.17	0.12	Open
TACOST	5.00	0.07	0.02	Open
B001	369.72	0.00	-182.66	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.61	Active Valve
LCAU2	19.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Ames

Node Results at 22:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.30	38.36	0.00
N0001	0.00	365.70	221.76	0.00
N0002	0.00	325.59	6.28	0.00
N1001	0.00	324.87	9.96	0.00
N1002	0.00	324.87	9.96	0.00
N1003	0.00	324.87	5.57	0.00
N1004	0.00	324.86	114.42	0.00
N1005	0.00	324.86	109.57	0.00
N1006	0.00	324.86	115.88	0.00
N1007	0.00	324.86	115.88	0.00
N2001	0.00	324.86	114.42	0.00
N2002	0.00	324.86	177.65	0.00
N2003	0.00	324.86	177.72	0.00
N3001	0.00	212.48	3.63	0.00
N3002	0.00	212.34	57.91	0.00
N3003	0.00	212.34	46.71	0.00
N4001	0.00	233.87	67.25	0.00
N4002	0.00	233.87	3.87	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.98	140.06	0.00
N6002	0.00	211.81	178.32	0.00
N6003	0.00	211.81	179.36	0.00
N6004	21.70	211.61	160.66	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	324.86	109.57	0.00
NBRION	7.05	152.71	3.21	0.00
NACO	3.00	233.87	3.43	0.00

RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-3.00	233.87	3.43	0.00	Tank
DBRION	-7.05	152.71	3.21	0.00	Tank
DREG	354.75	324.87	4.62	0.00	Tank
DETAP	-17.75	182.29	7.29	0.00	Tank
DCASTI	-21.70	212.48	2.23	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Ames

Link Results at 22:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	367.75	1.87	8.04	Open
T0002	367.75	1.87	8.04	Open
T1001	13.00	0.05	0.00	Open
T1002	13.00	0.05	0.00	Open
T1003	13.00	0.05	0.00	Open
T1004	13.00	0.07	0.01	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	21.70	0.23	0.19	Open
T3002	21.70	0.23	0.19	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	21.70	0.23	0.19	Open
T6002	21.70	0.23	0.19	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	21.70	0.23	0.19	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	7.05	0.10	0.04	Open
TACOST	3.00	0.04	0.01	Open
B001	367.75	0.00	-183.41	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.69	Active Valve
LCAU2	13.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 23:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.23	38.29	0.00
N0001	0.00	366.38	222.44	0.00
N0002	0.00	326.70	7.40	0.00
N1001	0.00	325.99	11.08	0.00
N1002	0.00	325.99	11.08	0.00
N1003	0.00	325.99	6.69	0.00
N1004	0.00	325.99	115.55	0.00
N1005	0.00	325.99	110.70	0.00
N1006	0.00	325.99	117.01	0.00
N1007	0.00	325.99	117.01	0.00
N2001	0.00	325.99	115.55	0.00
N2002	0.00	325.99	178.77	0.00
N2003	0.00	325.99	178.85	0.00
N3001	0.00	212.13	3.29	0.00
N3002	0.00	212.07	57.64	0.00
N3003	0.00	212.07	46.44	0.00
N4001	0.00	233.84	67.22	0.00
N4002	0.00	233.84	3.84	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.91	140.00	0.00
N6002	0.00	211.84	178.35	0.00
N6003	0.00	211.84	179.38	0.00
N6004	14.46	211.75	160.80	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	325.99	110.70	0.00
NBRION	4.70	152.61	3.11	0.00
NACO	2.00	233.84	3.41	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.84	3.41	0.00 Tank
DBRION	-4.70	152.61	3.11	0.00 Tank
DREG	359.27	325.99	5.74	0.00 Tank
DETAP	-15.77	182.22	7.22	0.00 Tank
DCASTI	-14.46	212.13	1.89	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 23:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	365.77	1.86	7.95	Open
T0002	365.77	1.86	7.95	Open
T1001	6.50	0.02	0.01	Open
T1002	6.50	0.02	0.00	Open
T1003	6.50	0.02	0.00	Open
T1004	6.50	0.03	0.00	Open

T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	14.46	0.15	0.08	Open
T3002	14.46	0.15	0.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	14.46	0.15	0.08	Open
T6002	14.46	0.15	0.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.01	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	365.77	0.00	-184.16	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.76	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 24:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.17	38.23	0.00
N0001	0.00	367.08	223.14	0.00
N0002	0.00	327.83	8.53	0.00
N1001	0.00	327.13	12.22	0.00
N1002	0.00	327.13	12.22	0.00
N1003	0.00	327.13	7.83	0.00
N1004	0.00	327.13	116.68	0.00
N1005	0.00	327.13	111.83	0.00
N1006	0.00	327.13	118.15	0.00
N1007	0.00	327.13	118.15	0.00
N2001	0.00	327.13	116.68	0.00
N2002	0.00	327.13	179.91	0.00
N2003	0.00	327.13	179.99	0.00
N3001	0.00	211.90	3.06	0.00
N3002	0.00	211.84	57.41	0.00
N3003	0.00	211.84	46.21	0.00
N4001	0.00	233.82	67.20	0.00
N4002	0.00	233.82	3.82	0.00
N5001	0.00	170.62	4.26	0.00

N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	211.68	139.77	0.00	
N6002	0.00	211.61	178.12	0.00	
N6003	0.00	211.61	179.15	0.00	
N6004	14.46	211.52	160.57	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	6.50	327.13	111.83	0.00	
NBRION	4.70	152.54	3.05	0.00	
NACO	2.00	233.82	3.39	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-2.00	233.82	3.39	0.00	Tank
DBRION	-4.70	152.54	3.05	0.00	Tank
DREG	357.26	327.13	6.88	0.00	Tank
DETAP	-13.76	182.16	7.16	0.00	Tank
DCASTI	-14.46	211.91	1.66	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 24:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.76	Open
T0001	363.76	1.85		7.86	Open
T0002	363.76	1.85		7.86	Open
T1001	6.50	0.02		0.00	Open
T1002	6.50	0.02		0.00	Open
T1003	6.50	0.02		0.00	Open
T1004	6.50	0.03		0.00	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	0.00	0.00		0.00	Open
T2002	0.00	0.00		0.00	Closed
T3001	14.46	0.15		0.08	Open
T3002	14.46	0.15		0.08	Open
T3003	0.00	0.00		0.00	Open
T3004	0.00	0.00		0.00	Closed
T4001	0.00	0.00		0.00	Open
T4002	0.00	0.00		0.00	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	14.46	0.15		0.08	Open
T6002	14.46	0.15		0.08	Open
T7001	0.00	0.00		0.00	Closed
T7002	0.00	0.00		0.00	Open
T7003	14.46	0.15		0.08	Open
TCAPT	350.00	1.24		2.75	Open
TPOLIND	6.50	0.03		0.00	Open
TBRION	4.70	0.07		0.02	Open
TACOST	2.00	0.03		0.00	Open
B001	363.76	0.00		-184.92	Open Pump
B002	0.00	0.00		0.00	Closed Pump

B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.82	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 25:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.12	38.17	0.00
N0001	0.00	367.78	223.83	0.00
N0002	0.00	328.95	9.65	0.00
N1001	0.00	328.26	13.35	0.00
N1002	0.00	328.26	13.35	0.00
N1003	0.00	328.26	8.96	0.00
N1004	0.00	328.26	117.82	0.00
N1005	0.00	328.26	112.97	0.00
N1006	0.00	328.26	119.28	0.00
N1007	0.00	328.26	119.28	0.00
N2001	0.00	328.26	117.82	0.00
N2002	0.00	328.26	181.04	0.00
N2003	0.00	328.26	181.12	0.00
N3001	0.00	211.68	2.83	0.00
N3002	0.00	211.61	57.18	0.00
N3003	0.00	211.61	45.98	0.00
N4001	0.00	233.80	67.19	0.00
N4002	0.00	233.80	3.80	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.45	139.54	0.00
N6002	0.00	211.38	177.89	0.00
N6003	0.00	211.38	178.92	0.00
N6004	14.46	211.29	160.34	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	328.26	112.97	0.00
NBRION	4.70	152.48	2.98	0.00
NACO	2.00	233.80	3.37	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.80	3.37	0.00 Tank
DBRION	-4.70	152.48	2.98	0.00 Tank
DREG	355.27	328.26	8.01	0.00 Tank
DETAP	-11.77	182.11	7.11	0.00 Tank
DCASTI	-14.46	211.68	1.43	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 25:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	361.77	1.84	7.78	Open
T0002	361.77	1.84	7.78	Open
T1001	6.50	0.02	0.00	Open
T1002	6.50	0.02	0.00	Open
T1003	6.50	0.02	0.00	Open
T1004	6.50	0.03	0.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	14.46	0.15	0.08	Open
T3002	14.46	0.15	0.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	14.46	0.15	0.08	Open
T6002	14.46	0.15	0.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.01	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	361.77	0.00	-185.67	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.87	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 26:00 Hrs:

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Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.38	38.44	0.00
N0001	0.00	329.15	185.20	0.00
N0002	0.00	329.15	9.84	0.00
N1001	0.00	329.15	14.23	0.00
N1002	0.00	329.15	14.23	0.00
N1003	0.00	329.15	9.84	0.00
N1004	0.00	329.14	118.70	0.00
N1005	0.00	329.14	113.85	0.00

N1006	0.00	329.14	120.16	0.00
N1007	0.00	329.14	120.16	0.00
N2001	0.00	329.14	118.70	0.00
N2002	0.00	329.14	181.93	0.00
N2003	0.00	329.14	182.00	0.00
N3001	0.00	211.45	2.60	0.00
N3002	0.00	211.38	56.95	0.00
N3003	0.00	211.38	45.75	0.00
N4001	0.00	233.78	67.17	0.00
N4002	0.00	233.78	3.78	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.22	139.31	0.00
N6002	0.00	211.15	177.66	0.00
N6003	0.00	211.15	178.69	0.00
N6004	14.46	211.06	160.11	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	329.14	113.85	0.00
NBRION	4.70	152.41	2.91	0.00
NACO	2.00	233.78	3.35	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.78	3.35	0.00 Tank
DBRION	-4.70	152.41	2.91	0.00 Tank
DREG	-6.50	329.15	8.90	0.00 Tank
DETAP	350.00	182.37	7.37	0.00 Tank
DCASTI	-14.46	211.45	1.20	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 26:00 Hrs:

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Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	6.50	0.02	0.00	Open
T1002	6.50	0.02	0.00	Open
T1003	6.50	0.02	0.00	Open
T1004	6.50	0.03	0.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	14.46	0.15	0.08	Open
T3002	14.46	0.15	0.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open

T6001	14.46	0.15	0.08	Open
T6002	14.46	0.15	0.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.00	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.61	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 27:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	329.13	185.18	0.00
N0002	0.00	329.13	9.82	0.00
N1001	0.00	329.13	14.21	0.00
N1002	0.00	329.13	14.21	0.00
N1003	0.00	329.12	9.82	0.00
N1004	0.00	329.12	118.68	0.00
N1005	0.00	329.12	113.83	0.00
N1006	0.00	329.12	120.14	0.00
N1007	0.00	329.12	120.14	0.00
N2001	0.00	329.12	118.68	0.00
N2002	0.00	329.12	181.91	0.00
N2003	0.00	329.12	181.98	0.00
N3001	0.00	211.22	2.37	0.00
N3002	0.00	211.16	56.72	0.00
N3003	0.00	211.16	45.52	0.00
N4001	0.00	233.76	67.15	0.00
N4002	0.00	233.76	3.76	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	210.99	139.08	0.00
N6002	0.00	210.92	177.43	0.00
N6003	0.00	210.92	178.46	0.00
N6004	14.46	210.83	159.88	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	6.50	329.12	113.83	0.00
NBRION	4.70	152.34	2.85	0.00
NACO	2.00	233.76	3.33	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.76	3.33	0.00 Tank

DBRION	-4.70	152.34	2.85	0.00 Tank
DREG	-6.50	329.13	8.88	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-14.46	211.22	0.97	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 27:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	6.50	0.02	0.00	Open
T1002	6.50	0.02	0.00	Open
T1003	6.50	0.02	0.00	Open
T1004	6.50	0.03	0.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	14.46	0.15	0.08	Open
T3002	14.46	0.15	0.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	14.46	0.15	0.08	Open
T6002	14.46	0.15	0.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	6.50	0.03	0.01	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 28:00 Hrs: Ames

Node	Demand	Head	Pressure	Quality
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ID	LPS	m	m	
N0000	0.00	200.00	56.06	0.00
N0001	0.00	329.10	185.16	0.00
N0002	0.00	329.10	9.80	0.00
N1001	0.00	329.10	14.19	0.00
N1002	0.00	329.10	14.19	0.00
N1003	0.00	329.10	9.80	0.00
N1004	0.00	329.10	118.66	0.00
N1005	0.00	329.10	113.81	0.00
N1006	0.00	329.10	120.12	0.00
N1007	0.00	329.10	120.12	0.00
N2001	0.00	329.10	118.66	0.00
N2002	0.00	329.10	181.88	0.00
N2003	0.00	329.10	181.96	0.00
N3001	0.00	210.99	2.14	0.00
N3002	0.00	210.93	56.49	0.00
N3003	0.00	210.93	45.29	0.00
N4001	0.00	233.74	67.13	0.00
N4002	0.00	233.74	3.74	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	210.76	138.85	0.00
N6002	0.00	210.69	177.20	0.00
N6003	0.00	210.69	178.24	0.00
N6004	14.46	210.60	159.65	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	6.50	329.10	113.81	0.00
NBRION	4.70	152.28	2.78	0.00
NACO	2.00	233.74	3.31	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.74	3.31	0.00 Tank
DBRION	-4.70	152.28	2.78	0.00 Tank
DREG	-6.50	329.10	8.85	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-14.46	210.99	0.74	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Ames

Link Results at 28:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s		m/km	
T0000	0.00	0.00		0.00	Closed
T0001	0.00	0.00		0.00	Open
T0002	0.00	0.00		0.00	Open
T1001	6.50	0.02		0.00	Open
T1002	6.50	0.02		0.00	Open
T1003	6.50	0.02		0.00	Open
T1004	6.50	0.03		0.00	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	0.00	0.00		0.00	Open

T2002	0.00	0.00	0.00	Closed
T3001	14.46	0.15	0.08	Open
T3002	14.46	0.15	0.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	14.46	0.15	0.08	Open
T6002	14.46	0.15	0.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	6.50	0.03	0.00	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Ames

Node Results at 29:00 Hrs:

Node	Demand	Head	Pressure	Quality
ID	LPS	m	m	
N0000	0.00	200.00	56.06	0.00
N0001	0.00	329.08	185.14	0.00
N0002	0.00	329.08	9.78	0.00
N1001	0.00	329.08	14.17	0.00
N1002	0.00	329.08	14.17	0.00
N1003	0.00	329.08	9.78	0.00
N1004	0.00	329.06	118.61	0.00
N1005	0.00	329.05	113.76	0.00
N1006	0.00	329.05	120.07	0.00
N1007	0.00	329.05	120.07	0.00
N2001	0.00	329.06	118.61	0.00
N2002	0.00	329.06	181.84	0.00
N2003	0.00	329.06	181.91	0.00
N3001	0.00	210.76	1.91	0.00
N3002	0.00	210.21	55.77	0.00
N3003	0.00	210.21	44.57	0.00
N4001	0.00	233.73	67.11	0.00
N4002	0.00	233.73	3.73	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	208.75	136.84	0.00

N6002	0.00	208.09	174.60	0.00	
N6003	0.00	208.09	175.63	0.00	
N6004	43.39	207.29	156.34	0.00	
NETAP	0.00	200.00	51.00	0.00	
NPOLIND	26.00	329.05	113.76	0.00	
NBRION	14.10	152.21	2.71	0.00	
NACO	6.00	233.73	3.29	0.00	
RIO	0.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-6.00	233.73	3.29	0.00	Tank
DBRION	-14.10	152.21	2.71	0.00	Tank
DREG	-26.00	329.08	8.83	0.00	Tank
DETAP	0.00	183.00	8.00	0.00	Tank
DCASTI	-43.39	210.76	0.51	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 29:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	26.00	0.09	0.02	Open
T1002	26.00	0.09	0.02	Open
T1003	26.00	0.09	0.02	Open
T1004	26.00	0.13	0.04	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	43.39	0.45	0.75	Open
T3002	43.39	0.45	0.75	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	43.39	0.45	0.75	Open
T6002	43.39	0.45	0.75	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	43.39	0.45	0.75	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	26.00	0.13	0.04	Open
TBRION	14.10	0.20	0.18	Open
TACOST	6.00	0.08	0.03	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	26.00	0.00	0.00	Open Valve

LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 30:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	328.64	184.70	0.00
N0002	0.00	328.64	9.34	0.00
N1001	0.00	328.63	13.72	0.00
N1002	0.00	328.63	13.72	0.00
N1003	0.00	328.48	9.18	0.00
N1004	0.00	325.64	115.20	0.00
N1005	0.00	325.18	109.88	0.00
N1006	0.00	313.95	104.97	0.00
N1007	0.00	212.27	3.29	0.00
N2001	0.00	325.64	115.20	0.00
N2002	0.00	325.64	178.42	0.00
N2003	0.00	325.64	178.50	0.00
N3001	0.00	211.87	3.03	0.00
N3002	0.00	210.35	55.91	0.00
N3003	0.00	210.35	44.71	0.00
N4001	0.00	233.67	67.05	0.00
N4002	0.00	233.67	3.67	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	206.30	134.39	0.00
N6002	0.00	204.47	170.98	0.00
N6003	0.00	204.47	172.01	0.00
N6004	72.32	202.24	151.29	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	65.00	325.17	109.88	0.00
NBRION	23.50	152.00	2.50	0.00
NACO	10.00	233.67	3.24	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-10.00	233.67	3.24	0.00 Tank
DBRION	-23.50	152.01	2.51	0.00 Tank
DREG	-275.00	328.64	8.39	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	137.68	211.88	1.64	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 30:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
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T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	275.00	0.97	1.70	Open
T1002	275.00	0.97	1.70	Open
T1003	275.00	0.97	1.70	Open
T1004	275.00	1.40	4.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	72.32	0.75	2.08	Open
T3002	72.32	0.75	2.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	72.32	0.75	2.08	Open
T6002	72.32	0.75	2.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	72.32	0.75	2.08	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	23.50	0.33	0.50	Open
TACOST	10.00	0.14	0.09	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	275.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	101.69	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 31:00 Hrs:

Node	Demand	Head	Pressure	Quality
ID	LPS	m	m	

N0000	0.00	200.00	56.06	0.00
N0001	0.00	328.05	184.11	0.00
N0002	0.00	328.05	8.74	0.00
N1001	0.00	328.05	13.13	0.00
N1002	0.00	328.05	13.13	0.00
N1003	0.00	328.03	8.73	0.00
N1004	0.00	327.72	117.27	0.00
N1005	0.00	327.67	112.37	0.00
N1006	0.00	327.67	118.69	0.00
N1007	0.00	327.67	118.69	0.00
N2001	0.00	327.72	117.27	0.00

N2002	0.00	327.72	180.50	0.00
N2003	0.00	327.72	180.58	0.00
N3001	0.00	212.65	3.80	0.00
N3002	0.00	209.21	54.77	0.00
N3003	0.00	209.21	43.57	0.00
N4001	0.00	233.57	66.96	0.00
N4002	0.00	233.57	3.57	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	200.11	128.20	0.00
N6002	0.00	195.98	162.50	0.00
N6003	0.00	195.98	163.53	0.00
N6004	108.48	190.96	140.01	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	91.00	327.67	112.37	0.00
NBRION	35.25	151.66	2.16	0.00
NACO	15.00	233.57	3.14	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	233.57	3.14	0.00 Tank
DBRION	-35.25	151.68	2.18	0.00 Tank
DREG	-91.00	328.05	7.80	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-108.48	212.66	2.42	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 31:00 Hrs:

Link	Flow	Velocity	Unit Headloss	Status
ID	LPS	m/s	m/km	

T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	91.00	0.32	0.19	Open
T1002	91.00	0.32	0.19	Open
T1003	91.00	0.32	0.19	Open
T1004	91.00	0.46	0.49	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	108.48	1.13	4.69	Open
T3002	108.48	1.13	4.68	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	108.48	1.13	4.68	Open
T6002	108.48	1.13	4.68	Open
T7001	0.00	0.00	0.00	Closed

T7002	0.00	0.00	0.00	Open
T7003	108.48	1.13	4.68	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	91.00	0.46	0.49	Open
TBRION	35.25	0.50	1.13	Open
TACOST	15.00	0.21	0.20	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	91.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 32:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	327.76	183.82	0.00
N0002	0.00	327.76	8.46	0.00
N1001	0.00	327.76	12.84	0.00
N1002	0.00	327.76	12.84	0.00
N1003	0.00	327.73	8.43	0.00
N1004	0.00	327.22	116.77	0.00
N1005	0.00	327.13	111.84	0.00
N1006	0.00	327.13	118.15	0.00
N1007	0.00	327.13	118.15	0.00
N2001	0.00	327.22	116.77	0.00
N2002	0.00	327.22	180.00	0.00
N2003	0.00	327.22	180.07	0.00
N3001	0.00	210.91	2.06	0.00
N3002	0.00	202.58	48.15	0.00
N3003	0.00	202.58	36.95	0.00
N4001	0.00	233.43	66.82	0.00
N4002	0.00	233.43	3.43	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	180.55	108.64	0.00
N6002	0.00	170.55	137.07	0.00
N6003	0.00	170.56	138.10	0.00
N6004	173.57	157.70	106.75	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	117.00	327.13	111.83	0.00
NBRION	56.40	151.12	1.63	0.00
NACO	24.00	233.43	3.00	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-24.00	233.43	3.00	0.00 Tank
DBRION	-56.40	151.18	1.68	0.00 Tank
DREG	-117.00	327.76	7.51	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank

DCASTI	-168.81	210.94	0.70	0.00 Tank
DALDEA	-4.76	170.62	4.00	0.00 Tank

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Link Results at 32:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	117.00	0.41	0.31	Open
T1002	117.00	0.41	0.31	Open
T1003	117.00	0.41	0.31	Open
T1004	117.00	0.60	0.81	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	168.81	1.75	11.35	Open
T3002	168.81	1.75	11.35	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	168.81	1.75	11.35	Open
T6002	168.81	1.75	11.35	Open
T7001	4.76	0.07	0.02	Open
T7002	4.76	0.07	0.02	Open
T7003	173.57	1.80	11.99	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	117.00	0.60	0.81	Open
TBRION	56.40	0.80	2.88	Open
TACOST	24.00	0.34	0.52	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	117.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 33:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00

N0001	0.00	326.76	182.82	0.00
N0002	0.00	326.76	7.46	0.00
N1001	0.00	326.72	11.81	0.00
N1002	0.00	326.72	11.81	0.00
N1003	0.00	326.14	6.84	0.00
N1004	0.00	315.29	104.84	0.00
N1005	0.00	314.46	99.17	0.00
N1006	0.00	303.24	94.26	0.00
N1007	0.00	211.30	2.32	0.00
N2001	0.00	315.29	104.84	0.00
N2002	0.00	151.81	4.59	0.00
N2003	0.00	151.81	4.66	0.00
N3001	0.00	210.88	2.03	0.00
N3002	0.00	201.33	46.90	0.00
N3003	0.00	170.70	5.06	0.00
N4001	0.00	233.20	66.59	0.00
N4002	0.00	233.20	3.20	0.00
N5001	0.00	170.62	4.25	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	180.82	108.91	0.00
N6002	0.00	171.52	138.03	0.00
N6003	0.00	171.46	139.00	0.00
N6004	144.64	162.59	111.64	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	156.00	314.45	99.16	0.00
NBRION	47.00	150.70	1.20	0.00
NACO	20.00	233.20	2.77	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-20.00	233.20	2.77	0.00 Tank
DBRION	125.21	150.74	1.24	0.00 Tank
DREG	-538.21	326.76	6.51	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	29.27	210.91	0.67	0.00 Tank
DALDEA	36.09	170.62	4.00	0.00 Tank

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Link Results at 33:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	538.21	1.90	6.50	Open
T1002	538.21	1.90	6.51	Open
T1003	538.21	1.90	6.51	Open
T1004	366.00	1.86	7.96	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	172.21	3.51	71.03	Open
T2002	172.21	3.51	71.03	Open
T3001	180.73	1.88	13.00	Open
T3002	180.73	1.88	13.00	Open

T3003	17.84	0.89	8.24	Open
T3004	17.84	0.89	8.24	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	162.89	1.69	10.56	Open
T6002	162.89	1.69	10.56	Open
T7001	-18.25	0.26	0.30	Open
T7002	-18.25	0.26	0.30	Open
T7003	144.64	1.50	8.33	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	156.00	0.79	1.44	Open
TBRION	47.00	0.66	2.00	Open
TACOST	20.00	0.28	0.36	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	538.21	0.00	0.00	Open Valve
LCAU03	172.21	3.51	0.00	Open Valve
2	210.00	1.32	91.94	Active Valve
3	172.21	3.51	0.00	Open Valve

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Node Results at 34:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	325.06	181.11	0.00
N0002	0.00	325.06	5.75	0.00
N1001	0.00	325.02	10.11	0.00
N1002	0.00	325.02	10.11	0.00
N1003	0.00	324.53	5.23	0.00
N1004	0.00	315.22	104.78	0.00
N1005	0.00	314.56	99.27	0.00
N1006	0.00	303.34	94.36	0.00
N1007	0.00	212.34	3.36	0.00
N2001	0.00	315.22	104.78	0.00
N2002	0.00	153.55	6.34	0.00
N2003	0.00	153.55	6.41	0.00
N3001	0.00	211.94	3.09	0.00
N3002	0.00	208.50	54.06	0.00
N3003	0.00	208.50	42.86	0.00
N4001	0.00	233.02	66.40	0.00
N4002	0.00	233.02	3.02	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	199.40	127.49	0.00
N6002	0.00	195.27	161.78	0.00
N6003	0.00	195.27	162.82	0.00
N6004	108.48	190.25	139.30	0.00

NETAP	0.00	200.00	51.00	0.00
NPOLIND	117.00	314.56	99.26	0.00
NBRION	35.25	152.48	2.98	0.00
NACO	15.00	233.01	2.58	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	233.02	2.58	0.00 Tank
DBRION	136.00	152.50	3.00	0.00 Tank
DREG	-498.26	325.06	4.81	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	101.52	211.95	1.70	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 34:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	498.25	1.76	5.57	Open
T1002	498.25	1.76	5.58	Open
T1003	498.25	1.76	5.58	Open
T1004	327.00	1.67	6.35	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	171.25	3.49	70.24	Open
T2002	171.25	3.49	70.24	Open
T3001	108.48	1.13	4.69	Open
T3002	108.48	1.13	4.68	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	108.48	1.13	4.68	Open
T6002	108.48	1.13	4.68	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	108.48	1.13	4.68	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	117.00	0.60	0.82	Open
TBRION	35.25	0.50	1.13	Open
TACOST	15.00	0.21	0.20	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	498.25	0.00	0.00	Open Valve
LCAU03	171.25	3.49	0.00	Open Valve
2	210.00	1.32	91.00	Active Valve
3	171.25	3.49	0.00	Open Valve

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Node Results at 35:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	323.93	179.99	0.00
N0002	0.00	323.93	4.63	0.00
N1001	0.00	323.93	9.02	0.00
N1002	0.00	323.93	9.02	0.00
N1003	0.00	323.91	4.60	0.00
N1004	0.00	323.39	112.95	0.00
N1005	0.00	323.31	108.01	0.00
N1006	0.00	323.31	114.33	0.00
N1007	0.00	323.31	114.33	0.00
N2001	0.00	323.39	112.95	0.00
N2002	0.00	323.39	176.17	0.00
N2003	0.00	323.39	176.25	0.00
N3001	0.00	212.69	3.84	0.00
N3002	0.00	210.11	55.67	0.00
N3003	0.00	210.11	44.47	0.00
N4001	0.00	232.87	66.26	0.00
N4002	0.00	232.87	2.87	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	203.28	131.36	0.00
N6002	0.00	200.18	166.69	0.00
N6003	0.00	200.18	167.72	0.00
N6004	94.02	196.40	145.45	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	117.00	323.30	108.01	0.00
NBRION	30.55	153.12	3.62	0.00
NACO	13.00	232.87	2.44	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	232.87	2.44	0.00 Tank
DBRION	-30.55	153.13	3.64	0.00 Tank
DREG	-117.00	323.93	3.68	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-94.02	212.70	2.46	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 35:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open

T1001	117.00	0.41	0.30	Open
T1002	117.00	0.41	0.31	Open
T1003	117.00	0.41	0.31	Open
T1004	117.00	0.60	0.81	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	94.02	0.98	3.52	Open
T3002	94.02	0.98	3.52	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	94.02	0.98	3.52	Open
T6002	94.02	0.98	3.52	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	94.02	0.98	3.52	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	117.00	0.60	0.81	Open
TBRION	30.55	0.43	0.85	Open
TACOST	13.00	0.18	0.15	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	117.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 36:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	323.56	179.62	0.00
N0002	0.00	323.56	4.26	0.00
N1001	0.00	323.56	8.65	0.00
N1002	0.00	323.56	8.65	0.00
N1003	0.00	323.55	4.25	0.00
N1004	0.00	323.40	112.95	0.00
N1005	0.00	323.37	108.08	0.00
N1006	0.00	323.37	114.39	0.00
N1007	0.00	323.37	114.39	0.00
N2001	0.00	323.40	112.95	0.00
N2002	0.00	323.40	176.18	0.00
N2003	0.00	323.40	176.25	0.00
N3001	0.00	211.20	2.35	0.00
N3002	0.00	207.76	53.32	0.00

N3003	0.00	207.76	42.12	0.00
N4001	0.00	232.75	66.13	0.00
N4002	0.00	232.75	2.75	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	198.66	126.75	0.00
N6002	0.00	194.53	161.05	0.00
N6003	0.00	194.53	162.08	0.00
N6004	108.48	189.51	138.56	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	65.00	323.37	108.07	0.00
NBRION	35.25	152.68	3.18	0.00
NACO	15.00	232.75	2.32	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	232.75	2.32	0.00 Tank
DBRION	-35.25	152.70	3.20	0.00 Tank
DREG	-65.00	323.56	3.31	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	-108.48	211.21	0.97	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 36:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	65.00	0.23	0.10	Open
T1002	65.00	0.23	0.09	Open
T1003	65.00	0.23	0.09	Open
T1004	65.00	0.33	0.25	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	108.48	1.13	4.69	Open
T3002	108.48	1.13	4.68	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	108.48	1.13	4.68	Open
T6002	108.48	1.13	4.68	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	108.48	1.13	4.68	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	65.00	0.33	0.25	Open

TBRION	35.25	0.50	1.13	Open
TACOST	15.00	0.21	0.20	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	65.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 37:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	322.99	179.05	0.00
N0002	0.00	322.99	3.69	0.00
N1001	0.00	322.98	8.06	0.00
N1002	0.00	322.98	8.06	0.00
N1003	0.00	322.83	3.52	0.00
N1004	0.00	319.99	109.55	0.00
N1005	0.00	319.52	104.23	0.00
N1006	0.00	308.30	99.32	0.00
N1007	0.00	211.73	2.74	0.00
N2001	0.00	319.99	109.55	0.00
N2002	0.00	319.99	172.77	0.00
N2003	0.00	319.99	172.85	0.00
N3001	0.00	211.32	2.47	0.00
N3002	0.00	206.37	51.93	0.00
N3003	0.00	206.37	40.73	0.00
N4001	0.00	232.61	65.99	0.00
N4002	0.00	232.61	2.61	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	193.27	121.35	0.00
N6002	0.00	187.32	153.84	0.00
N6003	0.00	187.32	154.87	0.00
N6004	130.18	180.09	129.14	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	65.00	319.52	104.23	0.00
NBRION	42.30	152.17	2.67	0.00
NACO	18.00	232.61	2.17	0.00
RIO	0.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-18.00	232.61	2.17	0.00 Tank
DBRION	-42.30	152.20	2.70	0.00 Tank
DREG	-275.00	322.99	2.74	0.00 Tank
DETAP	0.00	183.00	8.00	0.00 Tank
DCASTI	79.82	211.34	1.09	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 37:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	0.00	0.00	0.00	Closed
T0001	0.00	0.00	0.00	Open
T0002	0.00	0.00	0.00	Open
T1001	275.00	0.97	1.70	Open
T1002	275.00	0.97	1.70	Open
T1003	275.00	0.97	1.70	Open
T1004	275.00	1.40	4.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	130.18	1.35	6.75	Open
T3002	130.18	1.35	6.75	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	130.18	1.35	6.75	Open
T6002	130.18	1.35	6.75	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	130.18	1.35	6.75	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	42.30	0.60	1.62	Open
TACOST	18.00	0.25	0.29	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	275.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	96.58	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 38:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	322.11	178.17	0.00
N0002	0.00	322.11	2.81	0.00
N1001	0.00	322.10	7.19	0.00

N1002	0.00	322.10	7.19	0.00	
N1003	0.00	321.95	2.65	0.00	
N1004	0.00	319.12	108.67	0.00	
N1005	0.00	318.65	103.36	0.00	
N1006	0.00	307.43	98.45	0.00	
N1007	0.00	212.99	4.01	0.00	
N2001	0.00	319.12	108.67	0.00	
N2002	0.00	319.12	171.90	0.00	
N2003	0.00	319.12	171.98	0.00	
N3001	0.00	212.58	3.74	0.00	
N3002	0.00	207.63	53.20	0.00	
N3003	0.00	207.63	42.00	0.00	
N4001	0.00	232.44	65.82	0.00	
N4002	0.00	232.44	2.44	0.00	
N5001	0.00	170.62	4.26	0.00	
N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	194.53	122.62	0.00	
N6002	0.00	188.59	155.10	0.00	
N6003	0.00	188.59	156.13	0.00	
N6004	130.18	181.36	130.41	0.00	
NETAP	0.00	200.00	51.00	0.00	
NPOLIND	65.00	318.65	103.36	0.00	
NBRION	42.30	151.57	2.07	0.00	
NACO	18.00	232.44	2.00	0.00	
RIO	0.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-18.00	232.44	2.00	0.00	Tank
DBRION	-42.30	151.60	2.11	0.00	Tank
DREG	-275.00	322.11	1.86	0.00	Tank
DETAP	0.00	183.00	8.00	0.00	Tank
DCASTI	79.82	212.60	2.36	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 38:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	0.00	0.00		0.00	Closed
T0001	0.00	0.00		0.00	Open
T0002	0.00	0.00		0.00	Open
T1001	275.00	0.97		1.70	Open
T1002	275.00	0.97		1.70	Open
T1003	275.00	0.97		1.70	Open
T1004	275.00	1.40		4.49	Open
T1005	210.00	1.32		4.60	Open
T1006	210.00	1.67	598.15		Open
T2001	0.00	0.00		0.00	Open
T2002	0.00	0.00		0.00	Closed
T3001	130.18	1.35		6.75	Open
T3002	130.18	1.35		6.75	Open
T3003	0.00	0.00		0.00	Open
T3004	0.00	0.00		0.00	Closed
T4001	0.00	0.00		0.00	Open

T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	130.18	1.35	6.75	Open
T6002	130.18	1.35	6.75	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	130.18	1.35	6.75	Open
TCAPT	0.00	0.00	0.00	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	42.30	0.60	1.62	Open
TACOST	18.00	0.25	0.29	Open
B001	0.00	0.00	0.00	Closed Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	0.00	0.00	0.00	Open Valve
LCAU2	275.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	94.44	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 39:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	200.00	56.06	0.00
N0001	0.00	321.62	177.68	0.00
N0002	0.00	321.62	2.32	0.00
N1001	0.00	321.62	6.71	0.00
N1002	0.00	321.62	6.71	0.00
N1003	0.00	321.60	2.30	0.00
N1004	0.00	321.25	110.80	0.00
N1005	0.00	321.19	105.89	0.00
N1006	0.00	321.19	112.21	0.00
N1007	0.00	321.19	112.21	0.00
N2001	0.00	321.25	110.80	0.00
N2002	0.00	321.25	174.03	0.00
N2003	0.00	321.25	174.10	0.00
N3001	0.00	211.95	3.10	0.00
N3002	0.00	208.51	54.07	0.00
N3003	0.00	208.51	42.87	0.00
N4001	0.00	232.27	65.65	0.00
N4002	0.00	232.27	2.27	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	199.41	127.50	0.00
N6002	0.00	195.29	161.80	0.00
N6003	0.00	195.29	162.83	0.00
N6004	108.48	190.26	139.31	0.00
NETAP	0.00	200.00	51.00	0.00
NPOLIND	97.50	321.19	105.89	0.00
NBRION	35.25	150.98	1.49	0.00

NACO	15.00	232.27	1.83	0.00	
RIO	0.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-15.00	232.27	1.83	0.00	Tank
DBRION	-35.25	151.01	1.51	0.00	Tank
DREG	-97.50	321.62	1.37	0.00	Tank
DETAP	0.00	183.00	8.00	0.00	Tank
DCASTI	-108.48	211.96	1.72	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 39:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	0.00	0.00		0.00	Closed
T0001	0.00	0.00		0.00	Open
T0002	0.00	0.00		0.00	Open
T1001	97.50	0.34		0.21	Open
T1002	97.50	0.34		0.21	Open
T1003	97.50	0.34		0.21	Open
T1004	97.50	0.50		0.56	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	0.00	0.00		0.00	Open
T2002	0.00	0.00		0.00	Closed
T3001	108.48	1.13		4.68	Open
T3002	108.48	1.13		4.68	Open
T3003	0.00	0.00		0.00	Open
T3004	0.00	0.00		0.00	Closed
T4001	0.00	0.00		0.00	Open
T4002	0.00	0.00		0.00	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	108.48	1.13		4.68	Open
T6002	108.48	1.13		4.68	Open
T7001	0.00	0.00		0.00	Closed
T7002	0.00	0.00		0.00	Open
T7003	108.48	1.13		4.68	Open
TCAPT	0.00	0.00		0.00	Open
TPOLIND	97.50	0.50		0.57	Open
TBRION	35.25	0.50		1.13	Open
TACOST	15.00	0.21		0.20	Open
B001	0.00	0.00		0.00	Closed Pump
B002	0.00	0.00		0.00	Closed Pump
B003	0.00	0.00		0.00	Closed Pump
V001	0.00	0.00		0.00	Open Valve
LCAU2	97.50	0.00		0.00	Open Valve
LCAU03	0.00	0.00		0.00	Open Valve
2	0.00	0.00		0.00	Open Valve
3	0.00	0.00		0.00	Open Valve

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Node Results at 40:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.99	39.04	0.00
N0001	0.00	363.67	219.73	0.00
N0002	0.00	322.00	2.69	0.00
N1001	0.00	321.24	6.33	0.00
N1002	0.00	321.24	6.33	0.00
N1003	0.00	321.03	1.72	0.00
N1004	0.00	317.02	106.57	0.00
N1005	0.00	316.36	101.06	0.00
N1006	0.00	305.14	96.15	0.00
N1007	0.00	211.02	2.04	0.00
N2001	0.00	317.02	106.57	0.00
N2002	0.00	317.02	169.80	0.00
N2003	0.00	317.02	169.88	0.00
N3001	0.00	210.63	1.78	0.00
N3002	0.00	208.43	53.99	0.00
N3003	0.00	208.43	42.79	0.00
N4001	0.00	232.13	65.51	0.00
N4002	0.00	232.13	2.12	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	202.60	130.69	0.00
N6002	0.00	199.96	166.47	0.00
N6003	0.00	199.96	167.51	0.00
N6004	86.78	196.75	145.80	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	117.00	316.35	101.06	0.00
NBRION	28.20	150.49	0.99	0.00
NACO	12.00	232.12	1.69	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-12.00	232.13	1.69	0.00 Tank
DBRION	-28.20	150.51	1.01	0.00 Tank
DREG	47.83	321.25	1.00	0.00 Tank
DETAP	-24.83	182.98	7.98	0.00 Tank
DCASTI	123.22	210.63	0.39	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 40:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.75	Open
T0001	374.83	1.91		8.35	Open
T0002	374.83	1.91		8.35	Open
T1001	327.00	1.16		2.41	Open
T1002	327.00	1.16		2.40	Open
T1003	327.00	1.16		2.40	Open
T1004	327.00	1.67		6.35	Open

T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	86.78	0.90	2.99	Open
T3002	86.78	0.90	3.00	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	86.78	0.90	3.00	Open
T6002	86.78	0.90	3.00	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	86.78	0.90	3.00	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	117.00	0.60	0.81	Open
TBRION	28.20	0.40	0.72	Open
TACOST	12.00	0.17	0.13	Open
B001	374.83	0.00	-180.69	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.00	Active Valve
LCAU2	327.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	94.11	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 41:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.88	38.94	0.00
N0001	0.00	363.40	219.46	0.00
N0002	0.00	321.62	2.32	0.00
N1001	0.00	320.84	5.93	0.00
N1002	0.00	320.84	5.93	0.00
N1003	0.00	320.27	0.97	0.00
N1004	0.00	309.57	99.13	0.00
N1005	0.00	308.74	93.45	0.00
N1006	0.00	297.52	88.54	0.00
N1007	0.00	212.98	4.00	0.00
N2001	0.00	309.57	99.13	0.00
N2002	0.00	153.48	6.26	0.00
N2003	0.00	153.48	6.33	0.00
N3001	0.00	212.58	3.74	0.00
N3002	0.00	211.05	56.62	0.00
N3003	0.00	211.05	45.42	0.00
N4001	0.00	232.01	65.40	0.00
N4002	0.00	232.01	2.01	0.00
N5001	0.00	170.62	4.26	0.00

N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	207.01	135.10	0.00
N6002	0.00	205.18	171.69	0.00
N6003	0.00	205.18	172.72	0.00
N6004	72.32	202.94	152.00	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	156.00	308.74	93.44	0.00
NBRION	23.50	152.45	2.95	0.00
NACO	10.00	232.01	1.58	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-10.00	232.01	1.58	0.00 Tank
DBRION	144.78	152.46	2.96	0.00 Tank
DREG	-159.00	320.88	0.63	0.00 Tank
DETAP	-25.27	182.87	7.87	0.00 Tank
DCASTI	137.68	212.59	2.34	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 41:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	375.27	1.91	8.37	Open
T0002	375.27	1.91	8.37	Open
T1001	534.28	1.89	6.42	Open
T1002	534.28	1.89	6.41	Open
T1003	534.28	1.89	6.41	Open
T1004	366.00	1.86	7.96	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	168.28	3.43	67.82	Open
T2002	168.28	3.43	67.82	Open
T3001	72.32	0.75	2.08	Open
T3002	72.32	0.75	2.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	72.32	0.75	2.08	Open
T6002	72.32	0.75	2.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	72.32	0.75	2.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	156.00	0.79	1.44	Open
TBRION	23.50	0.33	0.50	Open
TACOST	10.00	0.14	0.09	Open
B001	375.27	0.00	-180.52	Open Pump

B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.10	Active Valve
LCAU2	534.28	0.00	0.00	Open Valve
LCAU03	168.28	3.43	0.00	Open Valve
2	210.00	1.32	84.54	Active Valve
3	168.28	3.43	0.00	Open Valve

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Node Results at 42:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.78	38.84	0.00
N0001	0.00	363.54	219.60	0.00
N0002	0.00	321.90	2.60	0.00
N1001	0.00	321.16	6.25	0.00
N1002	0.00	321.16	6.25	0.00
N1003	0.00	321.14	1.84	0.00
N1004	0.00	320.78	110.34	0.00
N1005	0.00	320.72	105.43	0.00
N1006	0.00	320.72	111.74	0.00
N1007	0.00	320.72	111.74	0.00
N2001	0.00	320.78	110.34	0.00
N2002	0.00	320.78	173.57	0.00
N2003	0.00	320.78	173.64	0.00
N3001	0.00	212.28	3.43	0.00
N3002	0.00	209.70	55.26	0.00
N3003	0.00	209.70	44.06	0.00
N4001	0.00	231.92	65.30	0.00
N4002	0.00	231.92	1.92	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	202.86	130.95	0.00
N6002	0.00	199.76	166.28	0.00
N6003	0.00	199.76	167.31	0.00
N6004	94.02	195.99	145.04	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	97.50	320.72	105.43	0.00
NBRION	30.55	153.20	3.70	0.00
NACO	13.00	231.92	1.48	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	231.92	1.48	0.00 Tank
DBRION	-30.55	153.22	3.72	0.00 Tank
DREG	277.15	321.16	0.91	0.00 Tank
DETAP	-24.65	182.77	7.77	0.00 Tank
DCASTI	-94.02	212.29	2.04	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 42:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	374.65	1.91	8.34	Open
T0002	374.65	1.91	8.34	Open
T1001	97.50	0.34	0.21	Open
T1002	97.50	0.34	0.21	Open
T1003	97.50	0.34	0.21	Open
T1004	97.50	0.50	0.56	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	94.02	0.98	3.52	Open
T3002	94.02	0.98	3.52	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	94.02	0.98	3.52	Open
T6002	94.02	0.98	3.52	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	94.02	0.98	3.52	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	97.50	0.50	0.57	Open
TBRION	30.55	0.43	0.85	Open
TACOST	13.00	0.18	0.15	Open
B001	374.65	0.00	-180.77	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.21	Active Valve
LCAU2	97.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 43:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.68	38.74	0.00
N0001	0.00	364.05	220.11	0.00
N0002	0.00	322.77	3.47	0.00
N1001	0.00	322.04	7.12	0.00
N1002	0.00	322.04	7.12	0.00
N1003	0.00	322.02	2.71	0.00
N1004	0.00	321.66	111.22	0.00
N1005	0.00	321.60	106.31	0.00

N1006	0.00	321.60	112.62	0.00	
N1007	0.00	321.60	112.62	0.00	
N2001	0.00	321.66	111.22	0.00	
N2002	0.00	321.66	174.44	0.00	
N2003	0.00	321.66	174.52	0.00	
N3001	0.00	210.79	1.95	0.00	
N3002	0.00	209.82	55.38	0.00	
N3003	0.00	209.82	44.18	0.00	
N4001	0.00	231.79	65.18	0.00	
N4002	0.00	231.79	1.79	0.00	
N5001	0.00	170.62	4.26	0.00	
N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	207.23	135.31	0.00	
N6002	0.00	206.05	172.57	0.00	
N6003	0.00	206.05	173.60	0.00	
N6004	57.86	204.63	153.68	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	97.50	321.60	106.31	0.00	
NBRION	18.80	152.78	3.28	0.00	
NACO	8.00	231.79	1.36	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-8.00	231.79	1.36	0.00	Tank
DBRION	-18.80	152.78	3.29	0.00	Tank
DREG	275.56	322.04	1.79	0.00	Tank
DETAP	-23.06	182.67	7.67	0.00	Tank
DCASTI	-57.86	210.80	0.55	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 43:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	373.06	1.90	8.27	Open
T0002	373.06	1.90	8.27	Open
T1001	97.50	0.34	0.22	Open
T1002	97.50	0.34	0.21	Open
T1003	97.50	0.34	0.21	Open
T1004	97.50	0.50	0.56	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	57.86	0.60	1.33	Open
T3002	57.86	0.60	1.33	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open

T6001	57.86	0.60	1.33	Open
T6002	57.86	0.60	1.33	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	57.86	0.60	1.33	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	97.50	0.50	0.57	Open
TBRION	18.80	0.27	0.32	Open
TACOST	8.00	0.11	0.06	Open
B001	373.06	0.00	-181.38	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.30	Active Valve
LCAU2	97.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 44:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.59	38.65	0.00
N0001	0.00	364.31	220.37	0.00
N0002	0.00	323.23	3.93	0.00
N1001	0.00	322.49	7.58	0.00
N1002	0.00	322.49	7.58	0.00
N1003	0.00	322.38	3.07	0.00
N1004	0.00	320.17	109.73	0.00
N1005	0.00	319.81	104.51	0.00
N1006	0.00	308.59	99.60	0.00
N1007	0.00	212.32	3.33	0.00
N2001	0.00	320.17	109.73	0.00
N2002	0.00	320.17	172.95	0.00
N2003	0.00	320.17	173.03	0.00
N3001	0.00	211.92	3.08	0.00
N3002	0.00	210.95	56.51	0.00
N3003	0.00	210.95	45.31	0.00
N4001	0.00	231.72	65.10	0.00
N4002	0.00	231.72	1.72	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	208.36	136.44	0.00
N6002	0.00	207.18	173.70	0.00
N6003	0.00	207.18	174.73	0.00
N6004	57.86	205.76	154.81	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	32.50	319.81	104.51	0.00
NBRION	18.80	152.51	3.01	0.00
NACO	8.00	231.72	1.28	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-8.00	231.72	1.28	0.00 Tank

DBRION	-18.80	152.52	3.02	0.00	Tank
DREG	129.65	322.50	2.25	0.00	Tank
DETAP	-22.15	182.58	7.58	0.00	Tank
DCASTI	152.14	211.93	1.68	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 44:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s	m/km		
T0000	350.00	1.24	2.76	Open	
T0001	372.15	1.90	8.23	Open	
T0002	372.15	1.90	8.23	Open	
T1001	242.50	0.86	1.32	Open	
T1002	242.50	0.86	1.32	Open	
T1003	242.50	0.86	1.32	Open	
T1004	242.50	1.24	3.49	Open	
T1005	210.00	1.32	4.60	Open	
T1006	210.00	1.67	598.15	Open	
T2001	0.00	0.00	0.00	Open	
T2002	0.00	0.00	0.00	Closed	
T3001	57.86	0.60	1.33	Open	
T3002	57.86	0.60	1.33	Open	
T3003	0.00	0.00	0.00	Open	
T3004	0.00	0.00	0.00	Closed	
T4001	0.00	0.00	0.00	Open	
T4002	0.00	0.00	0.00	Open	
T5001	0.00	0.00	0.00	Open	
T5002	0.00	0.00	0.00	Open	
T5003	0.00	0.00	0.00	Open	
T6001	57.86	0.60	1.33	Open	
T6002	57.86	0.60	1.33	Open	
T7001	0.00	0.00	0.00	Closed	
T7002	0.00	0.00	0.00	Open	
T7003	57.86	0.60	1.33	Open	
TCAPT	350.00	1.24	2.75	Open	
TPOLIND	32.50	0.17	0.07	Open	
TBRION	18.80	0.27	0.32	Open	
TACOST	8.00	0.11	0.06	Open	
B001	372.15	0.00	-181.73	Open	Pump
B002	0.00	0.00	0.00	Closed	Pump
B003	0.00	0.00	0.00	Closed	Pump
V001	350.00	1.24	17.40	Active	Valve
LCAU2	242.50	0.00	0.00	Open	Valve
LCAU03	0.00	0.00	0.00	Open	Valve
2	210.00	1.32	96.27	Active	Valve
3	0.00	0.00	0.00	Open	Valve

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Node Results at 45:00 Hrs:

Node	Demand	Head	Pressure	Quality
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ID	LPS	m	m	
N0000	0.00	182.50	38.56	0.00
N0001	0.00	364.75	220.81	0.00
N0002	0.00	323.97	4.67	0.00
N1001	0.00	323.24	8.33	0.00
N1002	0.00	323.24	8.33	0.00
N1003	0.00	323.24	3.94	0.00
N1004	0.00	323.23	112.78	0.00
N1005	0.00	323.22	107.93	0.00
N1006	0.00	323.22	114.24	0.00
N1007	0.00	323.22	114.24	0.00
N2001	0.00	323.23	112.78	0.00
N2002	0.00	323.23	176.01	0.00
N2003	0.00	323.23	176.08	0.00
N3001	0.00	212.69	3.84	0.00
N3002	0.00	212.31	57.87	0.00
N3003	0.00	212.31	46.67	0.00
N4001	0.00	231.64	65.03	0.00
N4002	0.00	231.64	1.64	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.29	139.38	0.00
N6002	0.00	210.84	177.35	0.00
N6003	0.00	210.84	178.38	0.00
N6004	36.16	210.28	159.33	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	19.50	323.22	107.93	0.00
NBRION	11.75	152.25	2.75	0.00
NACO	5.00	231.64	1.21	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-5.00	231.64	1.21	0.00 Tank
DBRION	-11.75	152.25	2.75	0.00 Tank
DREG	351.28	323.24	2.99	0.00 Tank
DETAP	-20.78	182.49	7.49	0.00 Tank
DCASTI	-36.16	212.69	2.45	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 45:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s	m/km		
T0000	350.00	1.24	2.76	Open	
T0001	370.78	1.89	8.17	Open	
T0002	370.78	1.89	8.17	Open	
T1001	19.50	0.07	0.01	Open	
T1002	19.50	0.07	0.01	Open	
T1003	19.50	0.07	0.01	Open	
T1004	19.50	0.10	0.02	Open	
T1005	0.00	0.00	0.00	Open	
T1006	0.00	0.00	0.00	Closed	
T2001	0.00	0.00	0.00	Open	

T2002	0.00	0.00	0.00	Closed
T3001	36.16	0.38	0.52	Open
T3002	36.16	0.38	0.52	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	36.16	0.38	0.52	Open
T6002	36.16	0.38	0.52	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	36.16	0.38	0.52	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	19.50	0.10	0.03	Open
TBRION	11.75	0.17	0.13	Open
TACOST	5.00	0.07	0.02	Open
B001	370.78	0.00	-182.25	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.48	Active Valve
LCAU2	19.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 46:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.42	38.48	0.00
N0001	0.00	365.42	221.48	0.00
N0002	0.00	325.07	5.77	0.00
N1001	0.00	324.35	9.44	0.00
N1002	0.00	324.35	9.44	0.00
N1003	0.00	324.35	5.05	0.00
N1004	0.00	324.35	113.90	0.00
N1005	0.00	324.35	109.05	0.00
N1006	0.00	324.35	115.36	0.00
N1007	0.00	324.35	115.36	0.00
N2001	0.00	324.35	113.90	0.00
N2002	0.00	324.35	177.13	0.00
N2003	0.00	324.35	177.20	0.00
N3001	0.00	212.11	3.27	0.00
N3002	0.00	211.98	57.54	0.00
N3003	0.00	211.98	46.34	0.00
N4001	0.00	231.59	64.98	0.00
N4002	0.00	231.59	1.59	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.61	139.70	0.00

N6002	0.00	211.45	177.96	0.00
N6003	0.00	211.45	178.99	0.00
N6004	21.70	211.25	160.30	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	324.35	109.05	0.00
NBRION	7.05	152.09	2.59	0.00
NACO	3.00	231.59	1.16	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-3.00	231.59	1.16	0.00 Tank
DBRION	-7.05	152.09	2.59	0.00 Tank
DREG	355.81	324.35	4.10	0.00 Tank
DETAP	-18.81	182.41	7.41	0.00 Tank
DCASTI	-21.70	212.12	1.87	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 46:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	368.81	1.88	8.08	Open
T0002	368.81	1.88	8.08	Open
T1001	13.00	0.05	0.01	Open
T1002	13.00	0.05	0.00	Open
T1003	13.00	0.05	0.00	Open
T1004	13.00	0.07	0.01	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	21.70	0.23	0.19	Open
T3002	21.70	0.23	0.19	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	21.70	0.23	0.19	Open
T6002	21.70	0.23	0.19	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	21.70	0.23	0.19	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	7.05	0.10	0.04	Open
TACOST	3.00	0.04	0.01	Open
B001	368.81	0.00	-183.01	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.57	Active Valve
LCAU2	13.00	0.00	0.00	Open Valve

LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 47:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.35	38.41	0.00
N0001	0.00	366.10	222.16	0.00
N0002	0.00	326.19	6.89	0.00
N1001	0.00	325.48	10.57	0.00
N1002	0.00	325.48	10.57	0.00
N1003	0.00	325.48	6.18	0.00
N1004	0.00	325.48	115.03	0.00
N1005	0.00	325.48	110.18	0.00
N1006	0.00	325.48	116.50	0.00
N1007	0.00	325.48	116.50	0.00
N2001	0.00	325.48	115.03	0.00
N2002	0.00	325.48	178.26	0.00
N2003	0.00	325.48	178.34	0.00
N3001	0.00	211.77	2.92	0.00
N3002	0.00	211.71	57.28	0.00
N3003	0.00	211.71	46.08	0.00
N4001	0.00	231.57	64.95	0.00
N4002	0.00	231.57	1.57	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	211.55	139.63	0.00
N6002	0.00	211.47	177.99	0.00
N6003	0.00	211.47	179.02	0.00
N6004	14.46	211.39	160.44	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	6.50	325.48	110.18	0.00
NBRION	4.70	151.99	2.49	0.00
NACO	2.00	231.57	1.13	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	231.57	1.13	0.00 Tank
DBRION	-4.70	151.99	2.49	0.00 Tank
DREG	360.32	325.48	5.23	0.00 Tank
DETAP	-16.82	182.34	7.34	0.00 Tank
DCASTI	-14.46	211.77	1.53	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 47:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Headloss m/km	Status
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T0000	350.00	1.24	2.75	Open
T0001	366.82	1.87	8.00	Open
T0002	366.82	1.87	8.00	Open
T1001	6.50	0.02	0.00	Open
T1002	6.50	0.02	0.00	Open
T1003	6.50	0.02	0.00	Open
T1004	6.50	0.03	0.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	14.46	0.15	0.08	Open
T3002	14.46	0.15	0.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	14.46	0.15	0.08	Open
T6002	14.46	0.15	0.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.00	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	366.82	0.00	-183.77	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.64	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 48:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	182.28	38.34	0.00
N0001	0.00	366.80	222.86	0.00
N0002	0.00	327.32	8.02	0.00
N1001	0.00	326.62	11.71	0.00
N1002	0.00	326.62	11.71	0.00
N1003	0.00	326.62	7.32	0.00
N1004	0.00	326.62	116.17	0.00
N1005	0.00	326.62	111.32	0.00
N1006	0.00	326.62	117.64	0.00
N1007	0.00	326.62	117.64	0.00
N2001	0.00	326.62	116.17	0.00

N2002	0.00	326.62	179.40	0.00	
N2003	0.00	326.62	179.48	0.00	
N3001	0.00	211.54	2.69	0.00	
N3002	0.00	211.48	57.05	0.00	
N3003	0.00	211.48	45.85	0.00	
N4001	0.00	231.55	64.93	0.00	
N4002	0.00	231.55	1.55	0.00	
N5001	0.00	170.62	4.26	0.00	
N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	211.32	139.40	0.00	
N6002	0.00	211.25	177.76	0.00	
N6003	0.00	211.25	178.79	0.00	
N6004	14.46	211.16	160.21	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	6.50	326.62	111.32	0.00	
NBRION	4.70	151.92	2.42	0.00	
NACO	2.00	231.55	1.11	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-2.00	231.55	1.11	0.00	Tank
DBRION	-4.70	151.92	2.42	0.00	Tank
DREG	358.31	326.62	6.37	0.00	Tank
DETAP	-14.81	182.27	7.27	0.00	Tank
DCASTI	-14.46	211.54	1.30	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

T7002	0.00	0.00	0.00	Open
T7003	14.46	0.15	0.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	6.50	0.03	0.00	Open
TBRION	4.70	0.07	0.02	Open
TACOST	2.00	0.03	0.00	Open
B001	364.81	0.00	-184.53	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	17.70	Active Valve
LCAU2	6.50	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Ames

Link Results at 48:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	364.81	1.86	7.91	Open
T0002	364.81	1.86	7.91	Open
T1001	6.50	0.02	0.00	Open
T1002	6.50	0.02	0.00	Open
T1003	6.50	0.02	0.00	Open
T1004	6.50	0.03	0.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	14.46	0.15	0.08	Open
T3002	14.46	0.15	0.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	14.46	0.15	0.08	Open
T6002	14.46	0.15	0.08	Open
T7001	0.00	0.00	0.00	Closed

FASE 2

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* E P A N E T *
* Hydraulic and Water Quality *
* Analysis for Pipe Networks *
* Version 2.0 *

Input File: Ames Enero Fase 2.NET

Ames

Link - Node Table:

Link ID	Start Node	End Node	Length m	Diameter mm	
T0000	N0000	DETAP	3.22	600	
T0001	N0001	N0002	4992.24	500	
T0002	N0002	DREG	89.03	500	
T1001	DREG	N1001	5.80	600	
T1002	N1002	N1003	88.97	600	
T1003	N1003	N1004	1668.148	600	
T1004	N1004	N1005	103.865	500	
T1005	N1005	N1006	2441.73	450	
T1006	N1007	DCASTI	0.65	400	
T2001	N2001	N2002	2301.64	250	
T2002	N2003	DBRION	15.04	250	
T3001	DCASTI	N3001	2.68	350	
T3002	N3001	N3002	734.07	350	
T3003	N3002	N3003	3717.98	160	
T3004	N3003	DALDEA	9.80	160	
T4001	N4001	N4002	790.801	200	
T4002	N4002	DACOSTA	22.45	200	
T5001	DALDEA	N5001	32.72	200	
T5002	N5001	N5002	1680.08	200	
T5003	QUIST	N5003	100	200	
T6001	N3002	N6001	1941.52	350	
T6002	N6001	N6002	881.285	350	
T7001	DALDEA	N6003	2785.46	300	
T7002	N6003	N6002	201.53	300	
T7003	N6002	N6004	1072.02	350	
TCAPT	RIO	NETAP	5	600	
TPOLIND	N1005	NPOLIND	5	500	
TBRION	DBRION	NBRION	19.47	300	
TACOST	DACOSTA	NACO	5	300	
B001	DETAP	N0001	#N/A	#N/A	Pump
B002	DALDEA	N4001	#N/A	#N/A	Pump
B003	N5003	N5002	#N/A	#N/A	Pump
V001	NETAP	N0000	#N/A	600	Valve
LCAU2	N1001	N1002	#N/A	100000	Valve
LCAU03	N1004	N2001	#N/A	250	Valve
2	N1006	N1007	#N/A	450	Valve
3	N2002	N2003	#N/A	250	Valve

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Ames

Energy Usage:

Pump	Usage Factor	Avg. Effic.	Kw-hr /m3	Avg. Kw	Peak Kw	Cost /day
B001	100.00	100.00	0.51	657.08	660.32	967.67
B002	16.30	75.00	0.29	51.43	52.33	14.01
B003	0.00	0.00	0.00	0.00	0.00	0.00

Demand Charge: 0.00
Total Cost: 981.68

Node Results at 0:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality	
N0000	0.00	180.01	36.07	0.00	
N0001	0.00	365.64	221.70	0.00	
N0002	0.00	325.94	6.64	0.00	
N1001	0.00	325.23	10.32	0.00	
N1002	0.00	325.23	10.32	0.00	
N1003	0.00	324.91	5.61	0.00	
N1004	0.00	319.00	108.55	0.00	
N1005	0.00	318.69	103.40	0.00	
N1006	0.00	307.47	98.49	0.00	
N1007	0.00	212.63	3.65	0.00	
N2001	0.00	319.00	108.55	0.00	
N2002	0.00	151.59	4.37	0.00	
N2003	0.00	151.59	4.45	0.00	
N3001	0.00	212.22	3.38	0.00	
N3002	0.00	206.56	52.13	0.00	
N3003	0.00	168.72	3.08	0.00	
N4001	0.00	248.17	81.55	0.00	
N4002	0.00	232.87	2.87	0.00	
N5001	0.00	168.62	2.26	0.00	
N5002	0.00	168.62	112.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	195.55	123.63	0.00	
N6002	0.00	190.55	157.06	0.00	
N6003	0.00	189.07	156.61	0.00	
N6004	29.33	190.18	139.23	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	13.00	318.69	103.40	0.00	
NBRION	9.40	150.50	1.00	0.00	
NACO	2.00	232.43	2.00	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	47.57	232.43	2.00	0.00	Tank
DBRION	164.87	150.50	1.00	0.00	Tank
DREG	-35.43	325.25	5.00	0.00	Tank

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Node Results at 0:00 Hrs: (continued) Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
DETAP	-11.84	180.00	5.00	0.00 Tank
DCASTI	70.80	212.24	2.00	0.00 Tank
DALDEA	60.30	168.62	2.00	0.00 Tank

Link Results at 0:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	361.84	1.84	7.95	Open
T0002	361.84	1.84	7.78	Open
T1001	397.27	1.41	3.55	Open
T1002	397.27	1.41	3.55	Open
T1003	397.27	1.41	3.55	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	174.27	3.55	72.73	Open
T2002	174.27	3.55	72.73	Open
T3001	139.20	1.45	7.71	Open
T3002	139.20	1.45	7.71	Open
T3003	19.83	0.99	10.18	Open
T3004	19.83	0.99	10.18	Open
T4001	49.57	1.58	19.35	Open
T4002	49.57	1.58	19.35	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	119.37	1.24	5.67	Open
T6002	119.37	1.24	5.67	Open
T7001	-90.04	1.27	7.34	Open
T7002	-90.04	1.27	7.34	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	361.84	0.00	-185.64	Open Pump
B002	49.57	0.00	-79.55	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	19.98	Active Valve
LCAU2	397.27	0.00	0.00	Open Valve
LCAU03	174.27	3.55	0.00	Open Valve
2	210.00	1.32	94.84	Active Valve
3	174.27	3.55	0.00	Open Valve

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Node Results at 1:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.96	36.02	0.00
N0001	0.00	365.56	221.61	0.00
N0002	0.00	325.83	6.53	0.00
N1001	0.00	325.12	10.21	0.00
N1002	0.00	325.12	10.21	0.00
N1003	0.00	324.81	5.50	0.00
N1004	0.00	318.93	108.48	0.00
N1005	0.00	318.62	103.33	0.00
N1006	0.00	307.40	98.42	0.00
N1007	0.00	212.92	3.94	0.00
N2001	0.00	318.93	108.48	0.00
N2002	0.00	153.90	6.68	0.00
N2003	0.00	153.90	6.76	0.00
N3001	0.00	212.51	3.67	0.00
N3002	0.00	206.92	52.48	0.00
N3003	0.00	169.56	3.92	0.00
N4001	0.00	248.88	82.26	0.00
N4002	0.00	233.33	3.33	0.00
N5001	0.00	169.46	3.10	0.00
N5002	0.00	169.46	113.22	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	196.02	124.11	0.00
N6002	0.00	191.08	157.59	0.00
N6003	0.00	189.62	157.16	0.00
N6004	29.33	190.71	139.76	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	318.62	103.33	0.00
NBRION	9.40	152.82	3.32	0.00
NACO	2.00	232.89	2.45	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	47.98	232.89	2.45	0.00 Tank
DBRION	163.62	152.82	3.32	0.00 Tank
DREG	-34.08	325.14	4.89	0.00 Tank
DETAP	-11.94	179.95	4.95	0.00 Tank
DCASTI	71.58	212.53	2.29	0.00 Tank
DALDEA	59.11	169.46	2.85	0.00 Tank

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Link Results at 1:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	361.94	1.84	7.96	Open
T0002	361.94	1.84	7.78	Open
T1001	396.02	1.40	3.52	Open
T1002	396.02	1.40	3.52	Open
T1003	396.02	1.40	3.52	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open

T1006	210.00	1.67	598.15	Open
T2001	173.02	3.52	71.70	Open
T2002	173.02	3.52	71.70	Open
T3001	138.42	1.44	7.63	Open
T3002	138.42	1.44	7.63	Open
T3003	19.70	0.98	10.05	Open
T3004	19.70	0.98	10.05	Open
T4001	49.98	1.59	19.66	Open
T4002	49.98	1.59	19.66	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	118.71	1.23	5.61	Open
T6002	118.71	1.23	5.61	Open
T7001	-89.39	1.26	7.24	Open
T7002	-89.39	1.26	7.24	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	361.94	0.00	-185.60	Open Pump
B002	49.98	0.00	-79.41	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.03	Active Valve
LCAU2	396.02	0.00	0.00	Open Valve
LCAU03	173.02	3.52	0.00	Open Valve
2	210.00	1.32	94.47	Active Valve
3	173.02	3.52	0.00	Open Valve

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Node Results at 2:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.91	35.97	0.00
N0001	0.00	365.73	221.79	0.00
N0002	0.00	326.13	6.83	0.00
N1001	0.00	325.44	10.52	0.00
N1002	0.00	325.44	10.52	0.00
N1003	0.00	325.34	6.04	0.00
N1004	0.00	323.47	113.03	0.00
N1005	0.00	323.17	107.87	0.00
N1006	0.00	311.94	102.96	0.00
N1007	0.00	213.22	4.24	0.00
N2001	0.00	323.47	113.03	0.00
N2002	0.00	323.47	176.26	0.00
N2003	0.00	323.47	176.33	0.00
N3001	0.00	212.81	3.96	0.00
N3002	0.00	207.27	52.84	0.00
N3003	0.00	170.39	4.75	0.00
N4001	0.00	249.57	82.96	0.00
N4002	0.00	233.79	3.79	0.00
N5001	0.00	170.29	3.93	0.00
N5002	0.00	170.29	114.05	0.00

N5003	0.00	56.24	0.00	0.00
N6001	0.00	196.49	124.58	0.00
N6002	0.00	191.60	158.11	0.00
N6003	0.00	190.16	157.71	0.00
N6004	29.33	191.23	140.29	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	323.17	107.87	0.00
NBRION	9.40	153.30	3.80	0.00
NACO	2.00	233.34	2.91	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	48.35	233.34	2.91	0.00 Tank
DBRION	-9.40	153.30	3.80	0.00 Tank
DREG	138.35	325.44	5.19	0.00 Tank
DETAP	-11.35	179.90	4.90	0.00 Tank
DCASTI	72.34	212.83	2.58	0.00 Tank
DALDEA	57.98	170.29	3.67	0.00 Tank

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Link Results at 2:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	361.35	1.84	7.93	Open
T0002	361.35	1.84	7.76	Open
T1001	223.00	0.79	1.12	Open
T1002	223.00	0.79	1.12	Open
T1003	223.00	0.79	1.12	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	137.66	1.43	7.55	Open
T3002	137.66	1.43	7.54	Open
T3003	19.58	0.97	9.92	Open
T3004	19.58	0.97	9.92	Open
T4001	50.35	1.60	19.96	Open
T4002	50.35	1.60	19.96	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	118.08	1.23	5.55	Open
T6002	118.08	1.23	5.55	Open
T7001	-88.75	1.26	7.13	Open
T7002	-88.75	1.26	7.13	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	361.35	0.00	-185.82	Open Pump
B002	50.35	0.00	-79.28	Open Pump
B003	0.00	0.00	0.00	Closed Pump

V001	350.00	1.24	20.07	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	98.73	Active Valve
3	0.00	0.00	0.00	Open Valve

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Ames

Node Results at 3:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.87	35.93	0.00
N0001	0.00	365.99	222.04	0.00
N0002	0.00	326.57	7.27	0.00
N1001	0.00	325.87	10.96	0.00
N1002	0.00	325.87	10.96	0.00
N1003	0.00	325.78	6.47	0.00
N1004	0.00	323.91	113.47	0.00
N1005	0.00	323.60	108.31	0.00
N1006	0.00	312.38	103.40	0.00
N1007	0.00	213.66	4.68	0.00
N2001	0.00	323.91	113.47	0.00
N2002	0.00	323.91	176.69	0.00
N2003	0.00	323.91	176.77	0.00
N3001	0.00	213.25	4.40	0.00
N3002	0.00	207.70	53.26	0.00
N3003	0.00	170.70	5.06	0.00
N4001	0.00	249.94	83.32	0.00
N4002	0.00	234.24	4.24	0.00
N5001	0.00	170.60	4.24	0.00
N5002	0.00	170.60	114.36	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	196.89	124.98	0.00
N6002	0.00	191.99	158.50	0.00
N6003	0.00	190.54	158.09	0.00
N6004	29.33	191.62	140.67	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	323.60	108.31	0.00
NBRION	9.40	153.16	3.67	0.00
NACO	2.00	233.80	3.37	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	48.20	233.80	3.37	0.00 Tank
DBRION	-9.40	153.17	3.67	0.00 Tank
DREG	137.54	325.88	5.63	0.00 Tank
DETAP	-10.54	179.86	4.86	0.00 Tank
DCASTI	72.15	213.27	3.03	0.00 Tank
DALDEA	58.32	170.60	3.98	0.00 Tank

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Link Results at 3:00 Hrs:

Link	Flow	Velocity	Unit Headloss	Status
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ID	LPS	m/s	m/km	
T0000	350.00	1.24	2.76	Open
T0001	360.54	1.84	7.90	Open
T0002	360.54	1.84	7.72	Open
T1001	223.00	0.79	1.12	Open
T1002	223.00	0.79	1.12	Open
T1003	223.00	0.79	1.12	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	137.85	1.43	7.56	Open
T3002	137.85	1.43	7.57	Open
T3003	19.62	0.98	9.95	Open
T3004	19.62	0.98	9.95	Open
T4001	50.20	1.60	19.84	Open
T4002	50.20	1.60	19.84	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	118.24	1.23	5.57	Open
T6002	118.24	1.23	5.57	Open
T7001	-88.91	1.26	7.16	Open
T7002	-88.91	1.26	7.16	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	360.54	0.00	-186.13	Open Pump
B002	50.20	0.00	-79.34	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.12	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	98.72	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 4:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.83	35.88	0.00
N0001	0.00	366.24	222.30	0.00
N0002	0.00	327.00	7.70	0.00
N1001	0.00	326.31	11.40	0.00
N1002	0.00	326.31	11.40	0.00
N1003	0.00	326.21	6.91	0.00
N1004	0.00	324.35	113.90	0.00
N1005	0.00	324.04	108.75	0.00
N1006	0.00	312.82	103.84	0.00
N1007	0.00	214.20	5.22	0.00

N2001	0.00	324.35	113.90	0.00	
N2002	0.00	324.35	177.13	0.00	
N2003	0.00	324.35	177.20	0.00	
N3001	0.00	213.79	4.95	0.00	
N3002	0.00	208.17	53.74	0.00	
N3003	0.00	170.67	5.04	0.00	
N4001	0.00	250.08	83.46	0.00	
N4002	0.00	234.69	4.69	0.00	
N5001	0.00	170.57	4.21	0.00	
N5002	0.00	170.57	114.33	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	197.24	125.33	0.00	
N6002	0.00	192.28	158.79	0.00	
N6003	0.00	190.82	158.36	0.00	
N6004	29.33	191.92	140.97	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	13.00	324.04	108.75	0.00	
NBRION	9.40	153.03	3.53	0.00	
NACO	2.00	234.25	3.82	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	47.71	234.25	3.82	0.00	Tank
DBRION	-9.40	153.03	3.53	0.00	Tank
DREG	136.74	326.32	6.07	0.00	Tank
DETAP	-9.74	179.82	4.82	0.00	Tank
DCASTI	70.82	213.81	3.57	0.00	Tank
DALDEA	60.14	170.57	3.96	0.00	Tank

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Link Results at 4:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.76	Open
T0001	359.74	1.83		7.86	Open
T0002	359.74	1.83		7.69	Open
T1001	223.00	0.79		1.12	Open
T1002	223.00	0.79		1.12	Open
T1003	223.00	0.79		1.12	Open
T1004	223.00	1.14		2.95	Open
T1005	210.00	1.32		4.60	Open
T1006	210.00	1.67		598.15	Open
T2001	0.00	0.00		0.00	Open
T2002	0.00	0.00		0.00	Closed
T3001	139.18	1.45		7.66	Open
T3002	139.18	1.45		7.66	Open
T3003	20.32	1.01		10.09	Open
T3004	20.32	1.01		10.09	Open
T4001	49.71	1.58		19.46	Open
T4002	49.71	1.58		19.46	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	118.86	1.24		5.63	Open
T6002	118.86	1.24		5.63	Open

T7001	-89.53	1.27	7.27	Open
T7002	-89.53	1.27	7.27	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	359.74	0.00	-186.43	Open Pump
B002	49.71	0.00	-79.50	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.16	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	98.62	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 5:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.79	35.85	0.00
N0001	0.00	366.50	222.56	0.00
N0002	0.00	327.43	8.13	0.00
N1001	0.00	326.74	11.83	0.00
N1002	0.00	326.74	11.83	0.00
N1003	0.00	326.60	7.30	0.00
N1004	0.00	324.03	113.59	0.00
N1005	0.00	323.61	108.31	0.00
N1006	0.00	312.38	103.40	0.00
N1007	0.00	214.73	5.75	0.00
N2001	0.00	324.03	113.59	0.00
N2002	0.00	324.03	176.81	0.00
N2003	0.00	324.03	176.89	0.00
N3001	0.00	214.31	5.47	0.00
N3002	0.00	205.99	51.56	0.00
N3003	0.00	170.68	5.04	0.00
N4001	0.00	250.24	83.63	0.00
N4002	0.00	235.13	5.13	0.00
N5001	0.00	170.59	4.23	0.00
N5002	0.00	170.59	114.35	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	188.70	116.79	0.00
N6002	0.00	180.85	147.36	0.00
N6003	0.00	180.16	147.70	0.00
N6004	87.98	177.55	126.60	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	52.00	323.61	108.31	0.00
NBRION	28.20	152.89	3.39	0.00
NACO	6.00	234.70	4.27	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	43.27	234.70	4.27	0.00 Tank
DBRION	-28.20	152.90	3.40	0.00 Tank

DREG	96.95	326.75	6.50	0.00	Tank
DETAP	-8.95	179.78	4.78	0.00	Tank
DCASTI	41.16	214.34	4.10	0.00	Tank
DALDEA	31.59	170.59	3.97	0.00	Tank

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Link Results at 5:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	358.95	1.83	7.83	Open
T0002	358.95	1.83	7.66	Open
T1001	262.00	0.93	1.55	Open
T1002	262.00	0.93	1.54	Open
T1003	262.00	0.93	1.54	Open
T1004	262.00	1.33	4.08	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	168.84	1.75	11.34	Open
T3002	168.84	1.75	11.33	Open
T3003	19.27	0.96	9.50	Open
T3004	19.27	0.96	9.50	Open
T4001	49.27	1.57	19.11	Open
T4002	49.27	1.57	19.11	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	149.56	1.55	8.91	Open
T6002	149.56	1.55	8.91	Open
T7001	-61.58	0.87	3.44	Open
T7002	-61.58	0.87	3.44	Open
T7003	87.98	0.91	3.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	52.00	0.26	0.16	Open
TBRION	28.20	0.40	0.72	Open
TACOST	6.00	0.08	0.03	Open
B001	358.95	0.00	-186.72	Open Pump
B002	49.27	0.00	-79.66	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.20	Active Valve
LCAU2	262.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	97.65	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 6:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
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N0000	0.00	179.75	35.81	0.00
N0001	0.00	366.68	222.74	0.00
N0002	0.00	327.74	8.43	0.00
N1001	0.00	327.04	12.13	0.00
N1002	0.00	327.04	12.13	0.00
N1003	0.00	326.81	7.51	0.00
N1004	0.00	322.48	112.03	0.00
N1005	0.00	321.76	106.47	0.00
N1006	0.00	310.54	101.56	0.00
N1007	0.00	215.04	6.06	0.00
N2001	0.00	322.48	112.03	0.00
N2002	0.00	322.48	175.26	0.00
N2003	0.00	322.48	175.33	0.00
N3001	0.00	214.61	5.76	0.00
N3002	0.00	204.26	49.83	0.00
N3003	0.00	170.65	5.01	0.00
N4001	0.00	250.37	83.75	0.00
N4002	0.00	235.53	5.53	0.00
N5001	0.00	170.56	4.20	0.00
N5002	0.00	170.56	114.32	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	182.06	110.14	0.00
N6002	0.00	171.98	138.49	0.00
N6003	0.00	171.88	139.42	0.00
N6004	146.64	162.80	111.85	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	130.00	321.76	106.46	0.00
NBRION	47.00	152.46	2.96	0.00
NACO	10.00	235.11	4.68	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	38.82	235.11	4.68	0.00 Tank
DBRION	-47.00	152.50	3.00	0.00 Tank
DREG	18.37	327.06	6.81	0.00 Tank
DETAP	-8.37	179.74	4.74	0.00 Tank
DCASTI	21.72	214.65	4.41	0.00 Tank
DALDEA	-7.18	170.56	3.95	0.00 Tank

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Link Results at 6:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	358.37	1.83	7.80	Open
T0002	358.37	1.83	7.63	Open
T1001	340.00	1.20	2.60	Open
T1002	340.00	1.20	2.60	Open
T1003	340.00	1.20	2.60	Open
T1004	340.00	1.73	6.87	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open

T2002	0.00	0.00	0.00	Closed
T3001	188.28	1.96	14.10	Open
T3002	188.28	1.96	14.10	Open
T3003	18.69	0.93	9.04	Open
T3004	18.69	0.93	9.04	Open
T4001	48.82	1.55	18.76	Open
T4002	48.82	1.55	18.76	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	169.59	1.76	11.44	Open
T6002	169.59	1.76	11.44	Open
T7001	-22.95	0.32	0.47	Open
T7002	-22.95	0.32	0.47	Open
T7003	146.64	1.52	8.56	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open
TBRION	47.00	0.66	2.00	Open
TACOST	10.00	0.14	0.09	Open
B001	358.37	0.00	-186.94	Open Pump
B002	48.82	0.00	-79.81	Open Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.23	Active Valve
LCAU2	340.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	95.50	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 7:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.72	35.78	0.00
N0001	0.00	366.70	222.76	0.00
N0002	0.00	327.79	8.49	0.00
N1001	0.00	327.09	12.18	0.00
N1002	0.00	327.09	12.18	0.00
N1003	0.00	326.79	7.49	0.00
N1004	0.00	321.03	110.58	0.00
N1005	0.00	320.08	104.78	0.00
N1006	0.00	308.86	99.87	0.00
N1007	0.00	215.13	6.14	0.00
N2001	0.00	321.03	110.58	0.00
N2002	0.00	321.03	173.81	0.00
N2003	0.00	321.03	173.89	0.00
N3001	0.00	214.70	5.85	0.00
N3002	0.00	203.09	48.66	0.00
N3003	0.00	170.55	4.91	0.00
N4001	0.00	250.43	83.82	0.00
N4002	0.00	235.89	5.89	0.00
N5001	0.00	170.46	4.10	0.00
N5002	0.00	170.46	114.23	0.00
N5003	0.00	56.24	0.00	0.00

N6001	0.00	177.81	105.89	0.00
N6002	0.00	166.33	132.84	0.00
N6003	0.00	166.61	134.15	0.00
N6004	219.96	145.68	94.73	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	182.00	320.07	104.77	0.00
NBRION	70.50	151.75	2.25	0.00
NACO	15.00	235.48	5.04	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	33.33	235.48	5.04	0.00 Tank
DBRION	-70.50	151.84	2.34	0.00 Tank
DREG	-33.79	327.11	6.86	0.00 Tank
DETAP	-8.21	179.71	4.71	0.00 Tank
DCASTI	10.75	214.74	4.49	0.00 Tank
DALDEA	-69.04	170.46	3.85	0.00 Tank

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Link Results at 7:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	358.21	1.82	7.79	Open
T0002	358.21	1.82	7.62	Open
T1001	392.00	1.39	3.46	Open
T1002	392.00	1.39	3.45	Open
T1003	392.00	1.39	3.45	Open
T1004	392.00	2.00	9.13	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	199.25	2.07	15.81	Open
T3002	199.25	2.07	15.81	Open
T3003	18.39	0.91	8.75	Open
T3004	18.39	0.91	8.75	Open
T4001	48.33	1.54	18.39	Open
T4002	48.33	1.54	18.39	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	180.86	1.88	13.02	Open
T6002	180.86	1.88	13.02	Open
T7001	39.10	0.55	1.38	Open
T7002	39.10	0.55	1.38	Open
T7003	219.96	2.29	19.26	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	182.00	0.93	1.96	Open
TBRION	70.50	1.00	4.50	Open
TACOST	15.00	0.21	0.20	Open
B001	358.21	0.00	-186.99	Open Pump
B002	48.33	0.00	-79.97	Open Pump
B003	0.00	0.00	0.00	Closed Pump

V001	350.00	1.24	20.27	Active Valve
LCAU2	392.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	93.73	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 8:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.68	35.74	0.00
N0001	0.00	366.62	222.68	0.00
N0002	0.00	327.69	8.38	0.00
N1001	0.00	326.98	12.07	0.00
N1002	0.00	326.98	12.07	0.00
N1003	0.00	326.59	7.29	0.00
N1004	0.00	319.20	108.75	0.00
N1005	0.00	317.98	102.69	0.00
N1006	0.00	306.76	97.78	0.00
N1007	0.00	215.17	6.19	0.00
N2001	0.00	319.20	108.75	0.00
N2002	0.00	319.20	171.98	0.00
N2003	0.00	319.20	172.06	0.00
N3001	0.00	214.71	5.86	0.00
N3002	0.00	196.05	41.61	0.00
N3003	0.00	169.69	4.06	0.00
N4001	0.00	235.71	69.09	0.00
N4002	0.00	235.71	5.71	0.00
N5001	0.00	169.62	3.26	0.00
N5002	0.00	169.62	113.39	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	152.93	81.02	0.00
N6002	0.00	133.37	99.88	0.00
N6003	0.00	135.81	103.36	0.00
N6004	351.94	80.51	29.56	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	317.96	102.67	0.00
NBRION	112.80	150.61	1.12	0.00
NACO	24.00	235.71	5.27	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-24.00	235.71	5.27	0.00 Tank
DBRION	-112.80	150.84	1.34	0.00 Tank
DREG	-85.66	327.01	6.76	0.00 Tank
DETAP	-8.34	179.68	4.68	0.00 Tank
DCASTI	-42.72	214.78	4.54	0.00 Tank
DALDEA	-99.22	169.62	3.01	0.00 Tank

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Link Results at 8:00 Hrs:

Link	Flow	Velocity	Unit Headloss	Status
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ID	LPS	m/s	m/km	
T0000	350.00	1.24	2.75	Open
T0001	358.34	1.82	7.80	Open
T0002	358.34	1.82	7.63	Open
T1001	444.00	1.57	4.43	Open
T1002	444.00	1.57	4.43	Open
T1003	444.00	1.57	4.43	Open
T1004	444.00	2.26	11.71	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	252.72	2.63	25.43	Open
T3002	252.72	2.63	25.43	Open
T3003	16.55	0.82	7.09	Open
T3004	16.55	0.82	7.09	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	236.17	2.45	22.21	Open
T6002	236.17	2.45	22.21	Open
T7001	115.77	1.64	12.14	Open
T7002	115.77	1.64	12.14	Open
T7003	351.94	3.66	49.31	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.25	Open
TBRION	112.80	1.60	11.52	Open
TACOST	24.00	0.34	0.52	Open
B001	358.34	0.00	-186.95	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.30	Active Valve
LCAU2	444.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	91.59	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 9:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.65	35.71	0.00
N0001	0.00	366.17	222.23	0.00
N0002	0.00	327.00	7.69	0.00
N1001	0.00	326.25	11.34	0.00
N1002	0.00	326.25	11.34	0.00
N1003	0.00	325.30	6.00	0.00
N1004	0.00	307.46	97.01	0.00
N1005	0.00	305.78	90.48	0.00
N1006	0.00	294.56	85.57	0.00
N1007	0.00	214.99	6.01	0.00

N2001	0.00	307.46	97.01	0.00	
N2002	0.00	152.15	4.94	0.00	
N2003	0.00	152.15	5.01	0.00	
N3001	0.00	214.55	5.70	0.00	
N3002	0.00	199.32	44.88	0.00	
N3003	0.00	168.31	2.68	0.00	
N4001	0.00	235.48	68.86	0.00	
N4002	0.00	235.48	5.48	0.00	
N5001	0.00	168.23	1.87	0.00	
N5002	0.00	168.23	111.99	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	165.13	93.21	0.00	
N6002	0.00	149.61	116.12	0.00	
N6003	0.00	150.86	118.41	0.00	
N6004	293.28	112.90	61.95	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	312.00	305.75	90.45	0.00	
NBRION	94.00	150.98	1.48	0.00	
NACO	20.00	235.48	5.05	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-20.00	235.48	5.05	0.00	Tank
DBRION	73.85	151.14	1.64	0.00	Tank
DREG	-330.40	326.31	6.06	0.00	Tank
DETAP	-9.45	179.64	4.64	0.00	Tank
DCASTI	-18.27	214.60	4.36	0.00	Tank
DALDEA	-65.01	168.23	1.61	0.00	Tank

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Link Results at 9:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.76	Open
T0001	359.45	1.83		7.85	Open
T0002	359.45	1.83		7.68	Open
T1001	689.85	2.44		10.69	Open
T1002	689.85	2.44		10.69	Open
T1003	689.85	2.44		10.69	Open
T1004	522.00	2.66		16.19	Open
T1005	210.00	1.32		4.60	Open
T1006	210.00	1.67		598.15	Open
T2001	167.85	3.42		67.48	Open
T2002	167.85	3.42		67.48	Open
T3001	228.27	2.37		20.75	Open
T3002	228.27	2.37		20.74	Open
T3003	17.95	0.89		8.34	Open
T3004	17.95	0.89		8.34	Open
T4001	0.00	0.00		0.00	Open
T4002	0.00	0.00		0.00	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	210.32	2.19		17.61	Open
T6002	210.32	2.19		17.61	Open

T7001	82.96	1.17	6.23	Open
T7002	82.96	1.17	6.23	Open
T7003	293.28	3.05	34.24	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	312.00	1.59	5.78	Open
TBRION	94.00	1.33	8.00	Open
TACOST	20.00	0.28	0.36	Open
B001	359.45	0.00	-186.53	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.34	Active Valve
LCAU2	689.85	0.00	0.00	Open Valve
LCAU03	167.85	3.42	0.00	Open Valve
2	210.00	1.32	79.56	Active Valve
3	167.85	3.42	0.00	Open Valve

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Node Results at 10:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.61	35.67	0.00
N0001	0.00	365.50	221.56	0.00
N0002	0.00	325.96	6.65	0.00
N1001	0.00	325.22	10.30	0.00
N1002	0.00	325.22	10.30	0.00
N1003	0.00	324.47	5.16	0.00
N1004	0.00	310.39	99.94	0.00
N1005	0.00	309.17	93.88	0.00
N1006	0.00	297.95	88.97	0.00
N1007	0.00	214.91	5.93	0.00
N2001	0.00	310.39	99.94	0.00
N2002	0.00	153.20	5.99	0.00
N2003	0.00	153.20	6.06	0.00
N3001	0.00	214.48	5.63	0.00
N3002	0.00	202.34	47.90	0.00
N3003	0.00	167.41	1.77	0.00
N4001	0.00	235.29	68.68	0.00
N4002	0.00	235.29	5.29	0.00
N5001	0.00	167.32	0.96	0.00
N5002	0.00	167.32	111.08	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	175.95	104.03	0.00
N6002	0.00	163.97	130.48	0.00
N6003	0.00	164.19	131.74	0.00
N6004	219.96	143.32	92.37	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	309.15	93.86	0.00
NBRION	70.50	152.09	2.59	0.00
NACO	15.00	235.29	4.86	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	235.29	4.86	0.00 Tank
DBRION	98.36	152.18	2.68	0.00 Tank
DREG	-251.73	325.27	5.02	0.00 Tank

DETAP	-11.14	179.60	4.60	0.00	Tank
DCASTI	6.18	214.53	4.28	0.00	Tank
DALDEA	-16.14	167.32	0.70	0.00	Tank

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Link Results at 10:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	361.14	1.84	7.92	Open
T0002	361.14	1.84	7.75	Open
T1001	612.86	2.17	8.44	Open
T1002	612.86	2.17	8.44	Open
T1003	612.86	2.17	8.44	Open
T1004	444.00	2.26	11.71	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	168.86	3.44	68.29	Open
T2002	168.86	3.44	68.29	Open
T3001	203.82	2.12	16.54	Open
T3002	203.82	2.12	16.54	Open
T3003	19.06	0.95	9.40	Open
T3004	19.06	0.95	9.39	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	184.77	1.92	13.59	Open
T6002	184.77	1.92	13.59	Open
T7001	35.19	0.50	1.12	Open
T7002	35.19	0.50	1.12	Open
T7003	219.96	2.29	19.26	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.25	Open
TBRION	70.50	1.00	4.50	Open
TACOST	15.00	0.21	0.20	Open
B001	361.14	0.00	-185.91	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.38	Active Valve
LCAU2	612.86	0.00	0.00	Open Valve
LCAU03	168.86	3.44	0.00	Open Valve
2	210.00	1.32	83.03	Active Valve
3	168.86	3.44	0.00	Open Valve

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Node Results at 11:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
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N0000	0.00	179.56	35.62	0.00
N0001	0.00	365.03	221.09	0.00
N0002	0.00	325.23	5.93	0.00
N1001	0.00	324.51	9.60	0.00
N1002	0.00	324.51	9.60	0.00
N1003	0.00	324.11	4.81	0.00
N1004	0.00	316.72	106.28	0.00
N1005	0.00	315.51	100.21	0.00
N1006	0.00	304.29	95.30	0.00
N1007	0.00	214.94	5.96	0.00
N2001	0.00	316.72	106.28	0.00
N2002	0.00	316.72	169.51	0.00
N2003	0.00	316.72	169.58	0.00
N3001	0.00	214.51	5.66	0.00
N3002	0.00	202.96	48.53	0.00
N3003	0.00	167.18	1.55	0.00
N4001	0.00	235.15	68.53	0.00
N4002	0.00	235.15	5.15	0.00
N5001	0.00	167.09	0.73	0.00
N5002	0.00	167.09	110.85	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	178.06	106.14	0.00
N6002	0.00	166.75	133.27	0.00
N6003	0.00	166.78	134.32	0.00
N6004	190.63	151.25	100.30	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	315.49	100.20	0.00
NBRION	61.10	153.21	3.72	0.00
NACO	13.00	235.15	4.72	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	235.15	4.72	0.00 Tank
DBRION	-61.10	153.28	3.78	0.00 Tank
DREG	-81.72	324.53	4.28	0.00 Tank
DETAP	-12.28	179.55	4.55	0.00 Tank
DCASTI	11.23	214.55	4.31	0.00 Tank
DALDEA	8.14	167.09	0.47	0.00 Tank

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Link Results at 11:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	362.28	1.85	7.97	Open
T0002	362.28	1.85	7.80	Open
T1001	444.00	1.57	4.43	Open
T1002	444.00	1.57	4.43	Open
T1003	444.00	1.57	4.43	Open
T1004	444.00	2.26	11.71	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	198.77	2.07	15.73	Open

T3002	198.77	2.07	15.73	Open
T3003	19.28	0.96	9.62	Open
T3004	19.28	0.96	9.62	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	179.49	1.87	12.83	Open
T6002	179.49	1.87	12.83	Open
T7001	11.14	0.16	0.11	Open
T7002	11.14	0.16	0.11	Open
T7003	190.63	1.98	14.47	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.25	Open
TBRION	61.10	0.86	3.38	Open
TACOST	13.00	0.18	0.15	Open
B001	362.28	0.00	-185.48	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.43	Active Valve
LCAU2	444.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	89.35	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 12:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.51	35.57	0.00
N0001	0.00	364.85	220.90	0.00
N0002	0.00	324.97	5.67	0.00
N1001	0.00	324.26	9.35	0.00
N1002	0.00	324.26	9.35	0.00
N1003	0.00	324.03	4.73	0.00
N1004	0.00	319.70	109.25	0.00
N1005	0.00	318.98	103.69	0.00
N1006	0.00	307.76	98.78	0.00
N1007	0.00	214.99	6.00	0.00
N2001	0.00	319.70	109.25	0.00
N2002	0.00	319.70	172.48	0.00
N2003	0.00	319.70	172.55	0.00
N3001	0.00	214.55	5.70	0.00
N3002	0.00	202.38	47.94	0.00
N3003	0.00	167.30	1.66	0.00
N4001	0.00	235.03	68.41	0.00
N4002	0.00	235.03	5.03	0.00
N5001	0.00	167.20	0.84	0.00
N5002	0.00	167.20	110.97	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	175.91	104.00	0.00
N6002	0.00	163.90	130.41	0.00
N6003	0.00	164.13	131.67	0.00

N6004	219.96	143.25	92.31	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	130.00	318.98	103.68	0.00
NBRION	70.50	152.33	2.83	0.00
NACO	15.00	235.02	4.59	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	235.03	4.59	0.00 Tank
DBRION	-70.50	152.42	2.92	0.00 Tank
DREG	22.63	324.28	4.03	0.00 Tank
DETAP	-12.63	179.50	4.50	0.00 Tank
DCASTI	5.88	214.60	4.35	0.00 Tank
DALDEA	-15.84	167.20	0.59	0.00 Tank

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Link Results at 12:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	362.63	1.85	7.99	Open
T0002	362.63	1.85	7.81	Open
T1001	340.00	1.20	2.60	Open
T1002	340.00	1.20	2.60	Open
T1003	340.00	1.20	2.60	Open
T1004	340.00	1.73	6.87	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.12	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	204.12	2.12	16.59	Open
T3002	204.12	2.12	16.59	Open
T3003	19.09	0.95	9.43	Open
T3004	19.09	0.95	9.43	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	185.02	1.92	13.63	Open
T6002	185.02	1.92	13.63	Open
T7001	34.94	0.49	1.11	Open
T7002	34.94	0.49	1.11	Open
T7003	219.96	2.29	19.26	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open
TBRION	70.50	1.00	4.50	Open
TACOST	15.00	0.21	0.20	Open
B001	362.63	0.00	-185.35	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.48	Active Valve
LCAU2	340.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.78	Active Valve

3 0.00 0.00 0.00 Open Valve

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Node Results at 13:00 Hrs:

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Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.46	35.52	0.00
N0001	0.00	364.87	220.93	0.00
N0002	0.00	325.04	5.74	0.00
N1001	0.00	324.33	9.42	0.00
N1002	0.00	324.33	9.42	0.00
N1003	0.00	324.10	4.80	0.00
N1004	0.00	319.77	109.32	0.00
N1005	0.00	319.05	103.76	0.00
N1006	0.00	307.83	98.85	0.00
N1007	0.00	215.01	6.03	0.00
N2001	0.00	319.77	109.32	0.00
N2002	0.00	319.77	172.55	0.00
N2003	0.00	319.77	172.63	0.00
N3001	0.00	214.57	5.72	0.00
N3002	0.00	200.63	46.20	0.00
N3003	0.00	167.07	1.44	0.00
N4001	0.00	234.88	68.27	0.00
N4002	0.00	234.88	4.88	0.00
N5001	0.00	166.98	0.62	0.00
N5002	0.00	166.98	110.74	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	169.81	97.89	0.00
N6002	0.00	155.81	122.33	0.00
N6003	0.00	156.57	124.11	0.00
N6004	263.95	126.08	75.13	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	130.00	319.05	103.75	0.00
NBRION	84.60	151.29	1.79	0.00
NACO	18.00	234.88	4.45	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-18.00	234.88	4.45	0.00 Tank
DBRION	-84.60	151.42	1.92	0.00 Tank
DREG	22.43	324.35	4.10	0.00 Tank
DETAP	-12.43	179.45	4.45	0.00 Tank
DCASTI	-8.37	214.62	4.38	0.00 Tank
DALDEA	-45.58	166.98	0.37	0.00 Tank

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Link Results at 13:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open

T0001	362.43	1.85	7.98	Open
T0002	362.43	1.85	7.80	Open
T1001	340.00	1.20	2.60	Open
T1002	340.00	1.20	2.60	Open
T1003	340.00	1.20	2.60	Open
T1004	340.00	1.73	6.87	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.12	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	218.37	2.27	18.99	Open
T3002	218.37	2.27	18.99	Open
T3003	18.68	0.93	9.03	Open
T3004	18.68	0.93	9.03	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	199.70	2.08	15.88	Open
T6002	199.70	2.08	15.88	Open
T7001	64.25	0.91	3.74	Open
T7002	64.25	0.91	3.74	Open
T7003	263.95	2.74	27.74	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open
TBRION	84.60	1.20	6.48	Open
TACOST	18.00	0.25	0.29	Open
B001	362.43	0.00	-185.42	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.53	Active Valve
LCAU2	340.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.82	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 14:00 Hrs:

Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.41	35.47	0.00
N0001	0.00	364.82	220.88	0.00
N0002	0.00	324.99	5.68	0.00
N1001	0.00	324.26	9.34	0.00
N1002	0.00	324.26	9.34	0.00
N1003	0.00	323.73	4.43	0.00
N1004	0.00	313.93	103.48	0.00
N1005	0.00	313.21	97.92	0.00
N1006	0.00	301.99	93.01	0.00
N1007	0.00	214.82	5.84	0.00
N2001	0.00	313.93	103.48	0.00
N2002	0.00	151.84	4.62	0.00

N2003	0.00	151.84	4.70	0.00	
N3001	0.00	214.38	5.53	0.00	
N3002	0.00	200.46	46.02	0.00	
N3003	0.00	166.96	1.32	0.00	
N4001	0.00	234.71	68.10	0.00	
N4002	0.00	234.71	4.71	0.00	
N5001	0.00	166.87	0.51	0.00	
N5002	0.00	166.87	110.63	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	169.65	97.74	0.00	
N6002	0.00	155.67	122.19	0.00	
N6003	0.00	156.43	123.97	0.00	
N6004	263.95	125.94	74.99	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	130.00	313.21	97.92	0.00	
NBRION	84.60	150.66	1.16	0.00	
NACO	18.00	234.71	4.28	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-18.00	234.71	4.28	0.00	Tank
DBRION	86.88	150.78	1.28	0.00	Tank
DREG	-149.04	324.29	4.04	0.00	Tank
DETAP	-12.43	179.40	4.40	0.00	Tank
DCASTI	-8.29	214.43	4.19	0.00	Tank
DALDEA	-45.67	166.87	0.25	0.00	Tank

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Link Results at 14:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s		m/km	
T0000	350.00	1.24		2.76	Open
T0001	362.43	1.85		7.98	Open
T0002	362.43	1.85		7.80	Open
T1001	511.48	1.81		5.88	Open
T1002	511.48	1.81		5.88	Open
T1003	511.48	1.81		5.88	Open
T1004	340.00	1.73		6.87	Open
T1005	210.00	1.32		4.60	Open
T1006	210.00	1.67		598.15	Open
T2001	171.48	3.49		70.42	Open
T2002	171.48	3.49		70.42	Open
T3001	218.29	2.27		18.97	Open
T3002	218.29	2.27		18.97	Open
T3003	18.66	0.93		9.01	Open
T3004	18.66	0.93		9.01	Open
T4001	0.00	0.00		0.00	Open
T4002	0.00	0.00		0.00	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	199.63	2.07		15.86	Open
T6002	199.63	2.07		15.86	Open
T7001	64.32	0.91		3.75	Open
T7002	64.32	0.91		3.75	Open

T7003	263.95	2.74	27.74	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open
TBRION	84.60	1.20	6.48	Open
TACOST	18.00	0.25	0.29	Open
B001	362.43	0.00	-185.42	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.58	Active Valve
LCAU2	511.48	0.00	0.00	Open Valve
LCAU03	171.48	3.49	0.00	Open Valve
2	210.00	1.32	87.17	Active Valve
3	171.48	3.49	0.00	Open Valve

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Node Results at 15:00 Hrs:

Node	Demand	Head	Pressure	Quality
ID	LPS	m	m	
N0000	0.00	179.35	35.41	0.00
N0001	0.00	364.50	220.56	0.00
N0002	0.00	324.52	5.22	0.00
N1001	0.00	323.78	8.87	0.00
N1002	0.00	323.78	8.87	0.00
N1003	0.00	323.12	3.82	0.00
N1004	0.00	310.76	100.32	0.00
N1005	0.00	309.75	94.46	0.00
N1006	0.00	298.53	89.55	0.00
N1007	0.00	214.60	5.62	0.00
N2001	0.00	310.76	100.32	0.00
N2002	0.00	153.04	5.82	0.00
N2003	0.00	153.04	5.89	0.00
N3001	0.00	214.17	5.32	0.00
N3002	0.00	202.00	47.57	0.00
N3003	0.00	166.97	1.33	0.00
N4001	0.00	234.54	67.93	0.00
N4002	0.00	234.54	4.54	0.00
N5001	0.00	166.87	0.51	0.00
N5002	0.00	166.87	110.64	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	175.56	103.65	0.00
N6002	0.00	163.56	130.07	0.00
N6003	0.00	163.78	131.33	0.00
N6004	219.96	142.91	91.96	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	195.00	309.74	94.44	0.00
NBRION	70.50	151.92	2.42	0.00
NACO	15.00	234.54	4.11	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	234.54	4.11	0.00 Tank
DBRION	98.65	152.00	2.51	0.00 Tank
DREG	-211.02	323.82	3.57	0.00 Tank
DETAP	-13.13	179.35	4.35	0.00 Tank
DCASTI	5.97	214.21	3.97	0.00 Tank

DALDEA -15.93 166.87 0.26 0.00 Tank

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Link Results at 15:00 Hrs:

Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	363.13	1.85	8.01	Open
T0002	363.13	1.85	7.83	Open
T1001	574.15	2.03	7.41	Open
T1002	574.15	2.03	7.41	Open
T1003	574.15	2.03	7.41	Open
T1004	405.00	2.06	9.75	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	169.15	3.45	68.53	Open
T2002	169.15	3.45	68.53	Open
T3001	204.03	2.12	16.58	Open
T3002	204.03	2.12	16.57	Open
T3003	19.08	0.95	9.42	Open
T3004	19.08	0.95	9.42	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	184.95	1.92	13.62	Open
T6002	184.95	1.92	13.62	Open
T7001	35.01	0.50	1.11	Open
T7002	35.01	0.50	1.11	Open
T7003	219.96	2.29	19.26	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	195.00	0.99	2.26	Open
TBRION	70.50	1.00	4.50	Open
TACOST	15.00	0.21	0.20	Open
B001	363.13	0.00	-185.16	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.63	Active Valve
LCAU2	574.15	0.00	0.00	Open Valve
LCAU03	169.15	3.45	0.00	Open Valve
2	210.00	1.32	83.93	Active Valve
3	169.15	3.45	0.00	Open Valve

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Node Results at 16:00 Hrs:

Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.30	35.36	0.00
N0001	0.00	364.07	220.12	0.00

N0002	0.00	323.86	4.55	0.00
N1001	0.00	323.11	8.19	0.00
N1002	0.00	323.11	8.19	0.00
N1003	0.00	322.36	3.06	0.00
N1004	0.00	308.36	97.91	0.00
N1005	0.00	307.14	91.85	0.00
N1006	0.00	295.92	86.94	0.00
N1007	0.00	214.56	5.57	0.00
N2001	0.00	308.36	97.91	0.00
N2002	0.00	154.40	7.18	0.00
N2003	0.00	154.40	7.26	0.00
N3001	0.00	214.12	5.28	0.00
N3002	0.00	202.70	48.26	0.00
N3003	0.00	166.98	1.34	0.00
N4001	0.00	234.40	67.78	0.00
N4002	0.00	234.40	4.40	0.00
N5001	0.00	166.89	0.53	0.00
N5002	0.00	166.89	110.65	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	178.08	106.16	0.00
N6002	0.00	166.90	133.41	0.00
N6003	0.00	166.90	134.44	0.00
N6004	175.97	153.69	102.74	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	307.13	91.83	0.00
NBRION	56.40	153.34	3.84	0.00
NACO	12.00	234.40	3.97	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-12.00	234.40	3.97	0.00 Tank
DBRION	110.72	153.39	3.90	0.00 Tank
DREG	-246.97	323.15	2.90	0.00 Tank
DETAP	-14.15	179.29	4.29	0.00 Tank
DCASTI	12.63	214.17	3.92	0.00 Tank
DALDEA	21.40	166.89	0.27	0.00 Tank

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Link Results at 16:00 Hrs:

Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	364.15	1.85	8.05	Open
T0002	364.15	1.85	7.88	Open
T1001	611.12	2.16	8.39	Open
T1002	611.12	2.16	8.39	Open
T1003	611.12	2.16	8.39	Open
T1004	444.00	2.26	11.71	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	167.12	3.40	66.89	Open
T2002	167.12	3.40	66.89	Open
T3001	197.37	2.05	15.56	Open
T3002	197.37	2.05	15.57	Open
T3003	19.28	0.96	9.61	Open

T3004	19.28	0.96	9.61	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	178.09	1.85	12.68	Open
T6002	178.09	1.85	12.68	Open
T7001	-2.12	0.03	0.00	Open
T7002	-2.12	0.03	0.00	Open
T7003	175.97	1.83	12.33	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.26	Open
TBRION	56.40	0.80	2.88	Open
TACOST	12.00	0.17	0.13	Open
B001	364.15	0.00	-184.78	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.69	Active Valve
LCAU2	611.12	0.00	0.00	Open Valve
LCAU03	167.12	3.40	0.00	Open Valve
2	210.00	1.32	81.37	Active Valve
3	167.12	3.40	0.00	Open Valve

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Ames

Node Results at 17:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.24	35.30	0.00
N0001	0.00	363.88	219.94	0.00
N0002	0.00	323.60	4.30	0.00
N1001	0.00	322.86	7.95	0.00
N1002	0.00	322.86	7.95	0.00
N1003	0.00	322.32	3.02	0.00
N1004	0.00	312.11	101.66	0.00
N1005	0.00	310.42	95.13	0.00
N1006	0.00	299.20	90.22	0.00
N1007	0.00	214.61	5.62	0.00
N2001	0.00	312.11	101.66	0.00
N2002	0.00	312.11	164.89	0.00
N2003	0.00	312.11	164.96	0.00
N3001	0.00	214.18	5.33	0.00
N3002	0.00	203.25	48.82	0.00
N3003	0.00	167.29	1.65	0.00
N4001	0.00	234.29	67.67	0.00
N4002	0.00	234.29	4.29	0.00
N5001	0.00	167.19	0.83	0.00
N5002	0.00	167.19	110.95	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	179.84	107.93	0.00
N6002	0.00	169.22	135.73	0.00
N6003	0.00	169.08	136.63	0.00
N6004	146.64	160.04	109.09	0.00

NETAP	0.00	199.99	50.99	0.00
NPOLIND	312.00	310.39	95.10	0.00
NBRION	47.00	152.56	3.07	0.00
NACO	10.00	234.29	3.85	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-10.00	234.29	3.85	0.00 Tank
DBRION	-47.00	152.60	3.10	0.00 Tank
DREG	-157.52	322.90	2.65	0.00 Tank
DETAP	-14.48	179.23	4.23	0.00 Tank
DCASTI	16.62	214.22	3.97	0.00 Tank
DALDEA	46.74	167.19	0.57	0.00 Tank

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Ames

Link Results at 17:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	364.48	1.86	8.07	Open
T0002	364.48	1.86	7.89	Open
T1001	522.00	1.85	6.12	Open
T1002	522.00	1.85	6.12	Open
T1003	522.00	1.85	6.12	Open
T1004	522.00	2.66	16.19	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	193.38	2.01	14.88	Open
T3002	193.38	2.01	14.88	Open
T3003	19.33	0.96	9.67	Open
T3004	19.33	0.96	9.67	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	174.05	1.81	12.06	Open
T6002	174.05	1.81	12.06	Open
T7001	-27.41	0.39	0.68	Open
T7002	-27.41	0.39	0.68	Open
T7003	146.64	1.52	8.56	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	312.00	1.59	5.79	Open
TBRION	47.00	0.66	2.00	Open
TACOST	10.00	0.14	0.09	Open
B001	364.48	0.00	-184.65	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.75	Active Valve
LCAU2	522.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	84.60	Active Valve
3	0.00	0.00	0.00	Open Valve

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Ames

Node Results at 18:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.18	35.24	0.00
N0001	0.00	363.55	219.61	0.00
N0002	0.00	323.11	3.80	0.00
N1001	0.00	322.38	7.47	0.00
N1002	0.00	322.38	7.47	0.00
N1003	0.00	322.05	2.75	0.00
N1004	0.00	315.90	105.46	0.00
N1005	0.00	314.89	99.60	0.00
N1006	0.00	303.67	94.69	0.00
N1007	0.00	214.68	5.69	0.00
N2001	0.00	315.90	105.46	0.00
N2002	0.00	315.90	168.69	0.00
N2003	0.00	315.90	168.76	0.00
N3001	0.00	214.25	5.40	0.00
N3002	0.00	202.92	48.49	0.00
N3003	0.00	167.94	2.30	0.00
N4001	0.00	234.19	67.58	0.00
N4002	0.00	234.19	4.19	0.00
N5001	0.00	167.84	1.48	0.00
N5002	0.00	167.84	111.61	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	178.49	106.57	0.00
N6002	0.00	167.40	133.91	0.00
N6003	0.00	167.43	134.97	0.00
N6004	190.63	151.89	100.94	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	195.00	314.88	99.59	0.00
NBRION	61.10	151.87	2.37	0.00
NACO	13.00	234.19	3.76	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	234.19	3.76	0.00 Tank
DBRION	-61.10	151.94	2.44	0.00 Tank
DREG	-39.80	322.40	2.15	0.00 Tank
DETAP	-15.20	179.17	4.17	0.00 Tank
DCASTI	13.16	214.29	4.04	0.00 Tank
DALDEA	6.20	167.84	1.23	0.00 Tank

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Ames

Link Results at 18:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	365.20	1.86	8.10	Open
T0002	365.20	1.86	7.92	Open

T1001	405.00	1.43	3.69	Open
T1002	405.00	1.43	3.69	Open
T1003	405.00	1.43	3.69	Open
T1004	405.00	2.06	9.75	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	196.84	2.05	15.43	Open
T3002	196.84	2.05	15.43	Open
T3003	19.07	0.95	9.41	Open
T3004	19.07	0.95	9.41	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	177.77	1.85	12.58	Open
T6002	177.77	1.85	12.58	Open
T7001	12.87	0.18	0.15	Open
T7002	12.87	0.18	0.15	Open
T7003	190.63	1.98	14.47	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	195.00	0.99	2.25	Open
TBRION	61.10	0.86	3.38	Open
TACOST	13.00	0.18	0.15	Open
B001	365.20	0.00	-184.38	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.81	Active Valve
LCAU2	405.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	88.99	Active Valve
3	0.00	0.00	0.00	Open Valve

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Ames

Node Results at 19:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.12	35.18	0.00
N0001	0.00	363.45	219.51	0.00
N0002	0.00	322.98	3.68	0.00
N1001	0.00	322.25	7.34	0.00
N1002	0.00	322.25	7.34	0.00
N1003	0.00	321.93	2.62	0.00
N1004	0.00	315.78	105.33	0.00
N1005	0.00	314.76	99.47	0.00
N1006	0.00	303.54	94.56	0.00
N1007	0.00	214.73	5.75	0.00
N2001	0.00	315.78	105.33	0.00
N2002	0.00	315.78	168.56	0.00
N2003	0.00	315.78	168.63	0.00
N3001	0.00	214.30	5.46	0.00
N3002	0.00	204.41	49.97	0.00

N3003	0.00	168.03	2.39	0.00	
N4001	0.00	234.07	67.45	0.00	
N4002	0.00	234.07	4.07	0.00	
N5001	0.00	167.93	1.57	0.00	
N5002	0.00	167.93	111.69	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	183.48	111.56	0.00	
N6002	0.00	173.97	140.49	0.00	
N6003	0.00	173.57	141.11	0.00	
N6004	117.31	168.10	117.15	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	195.00	314.75	99.46	0.00	
NBRION	37.60	151.05	1.55	0.00	
NACO	8.00	234.07	3.64	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-8.00	234.07	3.64	0.00	Tank
DBRION	-37.60	151.07	1.58	0.00	Tank
DREG	-39.69	322.27	2.02	0.00	Tank
DETAP	-15.31	179.11	4.11	0.00	Tank
DCASTI	25.95	214.34	4.10	0.00	Tank
DALDEA	66.74	167.93	1.32	0.00	Tank

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Link Results at 19:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	365.31	1.86	8.11	Open
T0002	365.31	1.86	7.93	Open
T1001	405.00	1.43	3.69	Open
T1002	405.00	1.43	3.69	Open
T1003	405.00	1.43	3.69	Open
T1004	405.00	2.06	9.75	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	184.05	1.91	13.48	Open
T3002	184.05	1.91	13.48	Open
T3003	19.44	0.97	9.79	Open
T3004	19.44	0.97	9.78	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	164.61	1.71	10.78	Open
T6002	164.61	1.71	10.78	Open
T7001	-47.30	0.67	2.02	Open
T7002	-47.30	0.67	2.02	Open
T7003	117.31	1.22	5.48	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	195.00	0.99	2.25	Open

TBRION	37.60	0.53	1.28	Open
TACOST	8.00	0.11	0.06	Open
B001	365.31	0.00	-184.34	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.87	Active Valve
LCAU2	405.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	88.81	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 20:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	179.06	35.11	0.00
N0001	0.00	363.34	219.40	0.00
N0002	0.00	322.86	3.55	0.00
N1001	0.00	322.14	7.23	0.00
N1002	0.00	322.14	7.23	0.00
N1003	0.00	321.99	2.69	0.00
N1004	0.00	319.15	108.71	0.00
N1005	0.00	318.69	103.39	0.00
N1006	0.00	307.46	98.48	0.00
N1007	0.00	214.84	5.86	0.00
N2001	0.00	319.15	108.71	0.00
N2002	0.00	319.15	171.94	0.00
N2003	0.00	319.15	172.01	0.00
N3001	0.00	214.41	5.57	0.00
N3002	0.00	204.66	50.22	0.00
N3003	0.00	168.96	3.33	0.00
N4001	0.00	233.99	67.38	0.00
N4002	0.00	233.99	3.99	0.00
N5001	0.00	168.87	2.51	0.00
N5002	0.00	168.87	112.63	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	184.00	112.09	0.00
N6002	0.00	174.63	141.14	0.00
N6003	0.00	174.24	141.79	0.00
N6004	117.31	168.76	117.81	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	65.00	318.69	103.39	0.00
NBRION	37.60	150.52	1.02	0.00
NACO	8.00	233.99	3.56	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-8.00	233.99	3.56	0.00 Tank
DBRION	-37.60	150.54	1.04	0.00 Tank
DREG	90.41	322.15	1.90	0.00 Tank
DETAP	-15.41	179.05	4.05	0.00 Tank
DCASTI	27.28	214.45	4.21	0.00 Tank
DALDEA	65.41	168.87	2.25	0.00 Tank

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Link Results at 20:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	365.41	1.86	8.11	Open
T0002	365.41	1.86	7.93	Open
T1001	275.00	0.97	1.70	Open
T1002	275.00	0.97	1.70	Open
T1003	275.00	0.97	1.70	Open
T1004	275.00	1.40	4.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	182.72	1.90	13.29	Open
T3002	182.72	1.90	13.29	Open
T3003	19.26	0.96	9.60	Open
T3004	19.26	0.96	9.60	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	163.46	1.70	10.64	Open
T6002	163.46	1.70	10.64	Open
T7001	-46.15	0.65	1.93	Open
T7002	-46.15	0.65	1.93	Open
T7003	117.31	1.22	5.48	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	37.60	0.53	1.28	Open
TACOST	8.00	0.11	0.06	Open
B001	365.41	0.00	-184.30	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.93	Active Valve
LCAU2	275.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.63	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 21:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.99	35.05	0.00
N0001	0.00	363.19	219.25	0.00
N0002	0.00	322.64	3.34	0.00
N1001	0.00	321.91	7.00	0.00
N1002	0.00	321.91	7.00	0.00

N1003	0.00	321.56	2.26	0.00
N1004	0.00	314.94	104.50	0.00
N1005	0.00	314.56	99.26	0.00
N1006	0.00	303.34	94.35	0.00
N1007	0.00	214.95	5.97	0.00
N2001	0.00	314.94	104.50	0.00
N2002	0.00	153.29	6.07	0.00
N2003	0.00	153.29	6.15	0.00
N3001	0.00	214.53	5.69	0.00
N3002	0.00	206.70	52.27	0.00
N3003	0.00	169.88	4.25	0.00
N4001	0.00	233.92	67.30	0.00
N4002	0.00	233.92	3.92	0.00
N5001	0.00	169.78	3.42	0.00
N5002	0.00	169.78	113.55	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	190.64	118.73	0.00
N6002	0.00	183.35	149.87	0.00
N6003	0.00	182.44	149.98	0.00
N6004	73.32	181.06	130.11	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	39.00	314.56	99.26	0.00
NBRION	23.50	152.23	2.73	0.00
NACO	5.00	233.92	3.48	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-5.00	233.92	3.48	0.00 Tank
DBRION	147.74	152.24	2.74	0.00 Tank
DREG	-54.58	321.94	1.69	0.00 Tank
DETAP	-15.66	178.98	3.98	0.00 Tank
DCASTI	46.28	214.56	4.32	0.00 Tank
DALDEA	90.40	169.78	3.17	0.00 Tank

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Link Results at 21:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	365.66	1.86	8.12	Open
T0002	365.66	1.86	7.94	Open
T1001	420.24	1.49	3.96	Open
T1002	420.24	1.49	3.97	Open
T1003	420.24	1.49	3.97	Open
T1004	249.00	1.27	3.68	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.12	Open
T2001	171.24	3.49	70.23	Open
T2002	171.24	3.49	70.23	Open
T3001	163.72	1.70	10.67	Open
T3002	163.72	1.70	10.67	Open
T3003	19.56	0.97	9.90	Open
T3004	19.56	0.97	9.90	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open

T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	144.16	1.50	8.27	Open
T6002	144.16	1.50	8.27	Open
T7001	-70.84	1.00	4.54	Open
T7002	-70.84	1.00	4.54	Open
T7003	73.32	0.76	2.14	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	39.00	0.20	0.09	Open
TBRION	23.50	0.33	0.50	Open
TACOST	5.00	0.07	0.02	Open
B001	365.66	0.00	-184.21	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	20.99	Active Valve
LCAU2	420.24	0.00	0.00	Open Valve
LCAU03	171.24	3.49	0.00	Open Valve
2	210.00	1.32	88.38	Active Valve
3	171.24	3.49	0.00	Open Valve

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Node Results at 22:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.93	34.99	0.00
N0001	0.00	363.21	219.27	0.00
N0002	0.00	322.71	3.41	0.00
N1001	0.00	322.00	7.08	0.00
N1002	0.00	322.00	7.08	0.00
N1003	0.00	321.89	2.58	0.00
N1004	0.00	319.80	109.35	0.00
N1005	0.00	319.45	104.16	0.00
N1006	0.00	308.23	99.25	0.00
N1007	0.00	215.27	6.29	0.00
N2001	0.00	319.80	109.35	0.00
N2002	0.00	319.80	172.58	0.00
N2003	0.00	319.80	172.66	0.00
N3001	0.00	214.88	6.03	0.00
N3002	0.00	214.31	59.88	0.00
N3003	0.00	214.31	48.68	0.00
N4001	0.00	233.87	67.25	0.00
N4002	0.00	233.87	3.87	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	212.82	140.90	0.00
N6002	0.00	212.14	178.65	0.00
N6003	0.00	212.14	179.68	0.00
N6004	43.99	211.31	160.36	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	26.00	319.45	104.16	0.00
NBRION	14.10	153.25	3.75	0.00
NACO	3.00	233.87	3.44	0.00

RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-3.00	233.87	3.44	0.00	Tank
DBRION	-14.10	153.25	3.75	0.00	Tank
DREG	129.44	322.00	1.75	0.00	Tank
DETAP	-15.44	178.92	3.92	0.00	Tank
DCASTI	166.01	214.88	4.64	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 22:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	365.44	1.86	8.11	Open
T0002	365.44	1.86	7.93	Open
T1001	236.00	0.83	1.26	Open
T1002	236.00	0.83	1.25	Open
T1003	236.00	0.83	1.25	Open
T1004	236.00	1.20	3.31	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	43.99	0.46	0.77	Open
T3002	43.99	0.46	0.77	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	43.99	0.46	0.77	Open
T6002	43.99	0.46	0.77	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	43.99	0.46	0.77	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	26.00	0.13	0.04	Open
TBRION	14.10	0.20	0.18	Open
TACOST	3.00	0.04	0.01	Open
B001	365.44	0.00	-184.29	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.06	Active Valve
LCAU2	236.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.96	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 23:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.87	34.93	0.00
N0001	0.00	363.44	219.50	0.00
N0002	0.00	323.12	3.82	0.00
N1001	0.00	322.41	7.50	0.00
N1002	0.00	322.41	7.50	0.00
N1003	0.00	322.31	3.01	0.00
N1004	0.00	320.44	110.00	0.00
N1005	0.00	320.14	104.84	0.00
N1006	0.00	308.92	99.93	0.00
N1007	0.00	215.95	6.97	0.00
N2001	0.00	320.44	110.00	0.00
N2002	0.00	320.44	173.23	0.00
N2003	0.00	320.44	173.30	0.00
N3001	0.00	215.56	6.71	0.00
N3002	0.00	215.31	60.87	0.00
N3003	0.00	215.31	49.67	0.00
N4001	0.00	233.84	67.23	0.00
N4002	0.00	233.84	3.84	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	214.64	142.73	0.00
N6002	0.00	214.34	180.85	0.00
N6003	0.00	214.34	181.88	0.00
N6004	29.33	213.97	163.02	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	320.14	104.84	0.00
NBRION	9.40	153.05	3.55	0.00
NACO	2.00	233.84	3.41	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.84	3.41	0.00 Tank
DBRION	-9.40	153.05	3.55	0.00 Tank
DREG	141.66	322.41	2.16	0.00 Tank
DETAP	-14.66	178.86	3.86	0.00 Tank
DCASTI	180.67	215.56	5.32	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 23:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	364.66	1.86	8.08	Open
T0002	364.66	1.86	7.90	Open
T1001	223.00	0.79	1.12	Open
T1002	223.00	0.79	1.12	Open
T1003	223.00	0.79	1.12	Open
T1004	223.00	1.14	2.95	Open

T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.12	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	29.33	0.30	0.35	Open
T3002	29.33	0.30	0.34	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	29.33	0.30	0.34	Open
T6002	29.33	0.30	0.34	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	364.66	0.00	-184.58	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.12	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.97	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 24:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.81	34.87	0.00
N0001	0.00	363.70	219.76	0.00
N0002	0.00	323.56	4.26	0.00
N1001	0.00	322.86	7.94	0.00
N1002	0.00	322.86	7.94	0.00
N1003	0.00	322.76	3.46	0.00
N1004	0.00	320.89	110.45	0.00
N1005	0.00	320.59	105.29	0.00
N1006	0.00	309.36	100.38	0.00
N1007	0.00	216.69	7.70	0.00
N2001	0.00	320.89	110.45	0.00
N2002	0.00	320.89	173.67	0.00
N2003	0.00	320.89	173.75	0.00
N3001	0.00	216.30	7.45	0.00
N3002	0.00	216.05	61.61	0.00
N3003	0.00	216.05	50.41	0.00
N4001	0.00	233.82	67.21	0.00
N4002	0.00	233.82	3.82	0.00
N5001	0.00	170.62	4.26	0.00

N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	215.38	143.47	0.00	
N6002	0.00	215.08	181.59	0.00	
N6003	0.00	215.08	182.62	0.00	
N6004	29.33	214.71	163.76	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	13.00	320.59	105.29	0.00	
NBRION	9.40	152.92	3.42	0.00	
NACO	2.00	233.82	3.39	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-2.00	233.82	3.39	0.00	Tank
DBRION	-9.40	152.92	3.42	0.00	Tank
DREG	140.82	322.86	2.61	0.00	Tank
DETAP	-13.82	178.80	3.80	0.00	Tank
DCASTI	180.67	216.30	6.05	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 24:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.75	Open
T0001	363.82	1.85		8.04	Open
T0002	363.82	1.85		7.86	Open
T1001	223.00	0.79		1.12	Open
T1002	223.00	0.79		1.12	Open
T1003	223.00	0.79		1.12	Open
T1004	223.00	1.14		2.95	Open
T1005	210.00	1.32		4.60	Open
T1006	210.00	1.67		598.15	Open
T2001	0.00	0.00		0.00	Open
T2002	0.00	0.00		0.00	Closed
T3001	29.33	0.30		0.34	Open
T3002	29.33	0.30		0.34	Open
T3003	0.00	0.00		0.00	Open
T3004	0.00	0.00		0.00	Closed
T4001	0.00	0.00		0.00	Open
T4002	0.00	0.00		0.00	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	29.33	0.30		0.34	Open
T6002	29.33	0.30		0.34	Open
T7001	0.00	0.00		0.00	Closed
T7002	0.00	0.00		0.00	Open
T7003	29.33	0.30		0.34	Open
TCAPT	350.00	1.24		2.75	Open
TPOLIND	13.00	0.07		0.01	Open
TBRION	9.40	0.13		0.08	Open
TACOST	2.00	0.03		0.00	Open
B001	363.82	0.00		-184.90	Open Pump
B002	0.00	0.00		0.00	Closed Pump

B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.18	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.68	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 25:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.75	34.81	0.00
N0001	0.00	363.96	220.02	0.00
N0002	0.00	324.01	4.70	0.00
N1001	0.00	323.30	8.39	0.00
N1002	0.00	323.30	8.39	0.00
N1003	0.00	323.20	3.90	0.00
N1004	0.00	321.34	110.89	0.00
N1005	0.00	321.03	105.74	0.00
N1006	0.00	309.81	100.83	0.00
N1007	0.00	217.42	8.44	0.00
N2001	0.00	321.34	110.89	0.00
N2002	0.00	321.34	174.12	0.00
N2003	0.00	321.34	174.20	0.00
N3001	0.00	217.03	8.19	0.00
N3002	0.00	216.78	62.35	0.00
N3003	0.00	216.78	51.15	0.00
N4001	0.00	233.80	67.19	0.00
N4002	0.00	233.80	3.80	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	216.12	144.20	0.00
N6002	0.00	215.82	182.33	0.00
N6003	0.00	215.82	183.36	0.00
N6004	29.33	215.45	164.50	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	321.03	105.74	0.00
NBRION	9.40	152.78	3.29	0.00
NACO	2.00	233.80	3.37	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.80	3.37	0.00 Tank
DBRION	-9.40	152.78	3.29	0.00 Tank
DREG	139.98	323.31	3.06	0.00 Tank
DETAP	-12.98	178.74	3.74	0.00 Tank
DCASTI	180.67	217.04	6.79	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 25:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	362.98	1.85	8.00	Open
T0002	362.98	1.85	7.83	Open
T1001	223.00	0.79	1.12	Open
T1002	223.00	0.79	1.12	Open
T1003	223.00	0.79	1.12	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	29.33	0.30	0.34	Open
T3002	29.33	0.30	0.34	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	29.33	0.30	0.34	Open
T6002	29.33	0.30	0.34	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	362.98	0.00	-185.21	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.23	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.39	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 26:00 Hrs:

Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.70	34.76	0.00
N0001	0.00	364.22	220.28	0.00
N0002	0.00	324.45	5.14	0.00
N1001	0.00	323.75	8.83	0.00
N1002	0.00	323.75	8.83	0.00
N1003	0.00	323.65	4.34	0.00
N1004	0.00	321.78	111.34	0.00
N1005	0.00	321.47	106.18	0.00

N1006	0.00	310.25	101.27	0.00
N1007	0.00	218.16	9.18	0.00
N2001	0.00	321.78	111.34	0.00
N2002	0.00	321.78	174.56	0.00
N2003	0.00	321.78	174.64	0.00
N3001	0.00	217.77	8.93	0.00
N3002	0.00	217.52	63.09	0.00
N3003	0.00	217.52	51.89	0.00
N4001	0.00	233.79	67.17	0.00
N4002	0.00	233.79	3.79	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	216.86	144.94	0.00
N6002	0.00	216.55	183.07	0.00
N6003	0.00	216.55	184.10	0.00
N6004	29.33	216.19	165.24	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	321.47	106.18	0.00
NBRION	9.40	152.65	3.15	0.00
NACO	2.00	233.79	3.35	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.79	3.35	0.00 Tank
DBRION	-9.40	152.65	3.15	0.00 Tank
DREG	139.16	323.75	3.50	0.00 Tank
DETAP	-12.16	178.69	3.69	0.00 Tank
DCASTI	180.67	217.77	7.53	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 26:00 Hrs:

Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	362.16	1.84	7.97	Open
T0002	362.16	1.84	7.79	Open
T1001	223.00	0.79	1.12	Open
T1002	223.00	0.79	1.12	Open
T1003	223.00	0.79	1.12	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	29.33	0.30	0.34	Open
T3002	29.33	0.30	0.34	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open

T6001	29.33	0.30	0.34	Open
T6002	29.33	0.30	0.34	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	362.16	0.00	-185.52	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.28	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	92.09	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 27:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.65	34.71	0.00
N0001	0.00	364.68	220.74	0.00
N0002	0.00	325.21	5.91	0.00
N1001	0.00	324.52	9.61	0.00
N1002	0.00	324.52	9.61	0.00
N1003	0.00	324.52	5.22	0.00
N1004	0.00	324.52	114.07	0.00
N1005	0.00	324.52	109.22	0.00
N1006	0.00	324.52	115.53	0.00
N1007	0.00	324.52	115.53	0.00
N2001	0.00	324.52	114.07	0.00
N2002	0.00	324.52	177.30	0.00
N2003	0.00	324.52	177.38	0.00
N3001	0.00	218.08	9.24	0.00
N3002	0.00	217.83	63.40	0.00
N3003	0.00	217.83	52.20	0.00
N4001	0.00	233.77	67.15	0.00
N4002	0.00	233.77	3.77	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	217.17	145.25	0.00
N6002	0.00	216.87	183.38	0.00
N6003	0.00	216.87	184.41	0.00
N6004	29.33	216.50	165.55	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	324.52	109.22	0.00
NBRION	9.40	152.52	3.02	0.00
NACO	2.00	233.77	3.33	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.77	3.33	0.00 Tank

DBRION	-9.40	152.52	3.02	0.00 Tank
DREG	347.78	324.52	4.27	0.00 Tank
DETAP	-10.78	178.64	3.64	0.00 Tank
DCASTI	-29.33	218.08	7.84	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 27:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	360.78	1.84	7.91	Open
T0002	360.78	1.84	7.73	Open
T1001	13.00	0.05	0.01	Open
T1002	13.00	0.05	0.00	Open
T1003	13.00	0.05	0.00	Open
T1004	13.00	0.07	0.01	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	29.33	0.30	0.34	Open
T3002	29.33	0.30	0.34	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	29.33	0.30	0.34	Open
T6002	29.33	0.30	0.34	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	360.78	0.00	-186.04	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.33	Active Valve
LCAU2	13.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 28:00 Hrs:

Node	Demand	Head	Pressure	Quality
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ID	LPS	m	m	
N0000	0.00	178.61	34.67	0.00
N0001	0.00	365.36	221.42	0.00
N0002	0.00	326.31	7.00	0.00
N1001	0.00	325.63	10.71	0.00
N1002	0.00	325.63	10.71	0.00
N1003	0.00	325.62	6.32	0.00
N1004	0.00	325.62	115.17	0.00
N1005	0.00	325.62	110.32	0.00
N1006	0.00	325.62	116.64	0.00
N1007	0.00	325.62	116.64	0.00
N2001	0.00	325.62	115.17	0.00
N2002	0.00	325.62	178.40	0.00
N2003	0.00	325.62	178.48	0.00
N3001	0.00	217.96	9.12	0.00
N3002	0.00	217.71	63.28	0.00
N3003	0.00	217.71	52.08	0.00
N4001	0.00	233.75	67.13	0.00
N4002	0.00	233.75	3.75	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	217.05	145.13	0.00
N6002	0.00	216.75	183.26	0.00
N6003	0.00	216.75	184.29	0.00
N6004	29.33	216.38	165.43	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	325.62	110.32	0.00
NBRION	9.40	152.38	2.89	0.00
NACO	2.00	233.75	3.31	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	233.75	3.31	0.00 Tank
DBRION	-9.40	152.39	2.89	0.00 Tank
DREG	345.86	325.63	5.37	0.00 Tank
DETAP	-8.86	178.60	3.60	0.00 Tank
DCASTI	-29.33	217.96	7.72	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 28:00 Hrs:

Link	Flow	Velocity	Unit	Headloss	Status
ID	LPS	m/s		m/km	
T0000	350.00	1.24		2.75	Open
T0001	358.86	1.83		7.82	Open
T0002	358.86	1.83		7.65	Open
T1001	13.00	0.05		0.00	Open
T1002	13.00	0.05		0.00	Open
T1003	13.00	0.05		0.00	Open
T1004	13.00	0.07		0.01	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	0.00	0.00		0.00	Open

T2002	0.00	0.00	0.00	Closed
T3001	29.33	0.30	0.34	Open
T3002	29.33	0.30	0.34	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	29.33	0.30	0.34	Open
T6002	29.33	0.30	0.34	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	358.86	0.00	-186.75	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.37	Active Valve
LCAU2	13.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 29:00 Hrs:

Node	Demand	Head	Pressure	Quality
ID	LPS	m	m	
N0000	0.00	178.58	34.64	0.00
N0001	0.00	366.03	222.09	0.00
N0002	0.00	327.39	8.09	0.00
N1001	0.00	326.72	11.81	0.00
N1002	0.00	326.72	11.81	0.00
N1003	0.00	326.71	7.41	0.00
N1004	0.00	326.61	116.17	0.00
N1005	0.00	326.60	111.30	0.00
N1006	0.00	326.60	117.61	0.00
N1007	0.00	326.60	117.61	0.00
N2001	0.00	326.61	116.17	0.00
N2002	0.00	326.61	179.39	0.00
N2003	0.00	326.61	179.47	0.00
N3001	0.00	217.84	8.99	0.00
N3002	0.00	215.57	61.14	0.00
N3003	0.00	215.57	49.94	0.00
N4001	0.00	233.73	67.11	0.00
N4002	0.00	233.73	3.73	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	209.59	137.68	0.00

N6002	0.00	206.87	173.39	0.00	
N6003	0.00	206.87	174.42	0.00	
N6004	87.98	203.57	152.62	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	52.00	326.60	111.30	0.00	
NBRION	28.20	152.24	2.74	0.00	
NACO	6.00	233.73	3.30	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-6.00	233.73	3.30	0.00	Tank
DBRION	-28.20	152.25	2.76	0.00	Tank
DREG	304.95	326.72	6.47	0.00	Tank
DETAP	-6.95	178.57	3.57	0.00	Tank
DCASTI	-87.98	217.84	7.60	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

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Link Results at 29:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	356.95	1.82	7.74	Open
T0002	356.95	1.82	7.57	Open
T1001	52.00	0.18	0.06	Open
T1002	52.00	0.18	0.06	Open
T1003	52.00	0.18	0.06	Open
T1004	52.00	0.26	0.16	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	87.98	0.91	3.08	Open
T3002	87.98	0.91	3.08	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	87.98	0.91	3.08	Open
T6002	87.98	0.91	3.08	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	87.98	0.91	3.08	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	52.00	0.26	0.16	Open
TBRION	28.20	0.40	0.72	Open
TACOST	6.00	0.08	0.03	Open
B001	356.95	0.00	-187.46	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.41	Active Valve
LCAU2	52.00	0.00	0.00	Open Valve

LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 30:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.56	34.61	0.00
N0001	0.00	366.63	222.68	0.00
N0002	0.00	328.35	9.05	0.00
N1001	0.00	327.68	12.77	0.00
N1002	0.00	327.68	12.77	0.00
N1003	0.00	327.65	8.35	0.00
N1004	0.00	327.02	116.57	0.00
N1005	0.00	326.91	111.62	0.00
N1006	0.00	326.91	117.93	0.00
N1007	0.00	326.91	117.93	0.00
N2001	0.00	327.02	116.57	0.00
N2002	0.00	327.02	179.80	0.00
N2003	0.00	327.02	179.87	0.00
N3001	0.00	217.46	8.62	0.00
N3002	0.00	211.18	56.74	0.00
N3003	0.00	211.18	45.54	0.00
N4001	0.00	233.67	67.06	0.00
N4002	0.00	233.67	3.67	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	194.56	122.64	0.00
N6002	0.00	187.01	153.53	0.00
N6003	0.00	187.01	154.56	0.00
N6004	146.64	177.84	126.89	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	130.00	326.91	111.61	0.00
NBRION	47.00	151.82	2.32	0.00
NACO	10.00	233.67	3.24	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-10.00	233.67	3.24	0.00 Tank
DBRION	-47.00	151.85	2.36	0.00 Tank
DREG	225.27	327.69	7.44	0.00 Tank
DETAP	-5.27	178.55	3.55	0.00 Tank
DCASTI	-146.64	217.49	7.24	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 30:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
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T0000	350.00	1.24	2.76	Open
T0001	355.27	1.81	7.67	Open
T0002	355.27	1.81	7.50	Open
T1001	130.00	0.46	0.38	Open
T1002	130.00	0.46	0.38	Open
T1003	130.00	0.46	0.38	Open
T1004	130.00	0.66	1.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	146.64	1.52	8.56	Open
T3002	146.64	1.52	8.56	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	146.64	1.52	8.56	Open
T6002	146.64	1.52	8.56	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	146.64	1.52	8.56	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open
TBRION	47.00	0.66	2.00	Open
TACOST	10.00	0.14	0.09	Open
B001	355.27	0.00	-188.08	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.43	Active Valve
LCAU2	130.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 31:00 Hrs: Ames

Node	Demand	Head	Pressure	Quality
ID	LPS	m	m	

N0000	0.00	178.54	34.60	0.00
N0001	0.00	367.06	223.12	0.00
N0002	0.00	329.06	9.76	0.00
N1001	0.00	328.39	13.48	0.00
N1002	0.00	328.39	13.48	0.00
N1003	0.00	328.33	9.03	0.00
N1004	0.00	327.09	116.64	0.00
N1005	0.00	326.88	111.59	0.00
N1006	0.00	326.88	117.90	0.00
N1007	0.00	326.88	117.90	0.00
N2001	0.00	327.09	116.64	0.00

N2002	0.00	327.09	179.87	0.00
N2003	0.00	327.09	179.94	0.00
N3001	0.00	216.85	8.00	0.00
N3002	0.00	206.68	52.25	0.00
N3003	0.00	206.68	41.05	0.00
N4001	0.00	233.58	66.96	0.00
N4002	0.00	233.58	3.58	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	179.79	107.88	0.00
N6002	0.00	167.59	134.10	0.00
N6003	0.00	167.79	135.34	0.00
N6004	219.96	146.94	95.99	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	182.00	326.87	111.58	0.00
NBRION	70.50	151.10	1.60	0.00
NACO	15.00	233.58	3.14	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	233.58	3.14	0.00 Tank
DBRION	-70.50	151.19	1.69	0.00 Tank
DREG	172.02	328.40	8.15	0.00 Tank
DETAP	-4.02	178.53	3.53	0.00 Tank
DCASTI	-186.51	216.89	6.64	0.00 Tank
DALDEA	-33.45	170.62	4.00	0.00 Tank

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Link Results at 31:00 Hrs: Ames

Link	Flow	Velocity	Unit Headloss	Status
ID	LPS	m/s	m/km	

T0000	350.00	1.24	2.75	Open
T0001	354.02	1.80	7.61	Open
T0002	354.02	1.80	7.45	Open
T1001	182.00	0.64	0.74	Open
T1002	182.00	0.64	0.74	Open
T1003	182.00	0.64	0.74	Open
T1004	182.00	0.93	1.97	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	186.51	1.94	13.86	Open
T3002	186.51	1.94	13.85	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	186.51	1.94	13.85	Open
T6002	186.51	1.94	13.85	Open
T7001	33.45	0.47	1.01	Open

T7002	33.45	0.47	1.01	Open
T7003	219.96	2.29	19.26	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	182.00	0.93	1.96	Open
TBRION	70.50	1.00	4.50	Open
TACOST	15.00	0.21	0.20	Open
B001	354.02	0.00	-188.54	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.45	Active Valve
LCAU2	182.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 32:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.52	34.58	0.00
N0001	0.00	367.29	223.35	0.00
N0002	0.00	329.43	10.13	0.00
N1001	0.00	328.75	13.84	0.00
N1002	0.00	328.75	13.84	0.00
N1003	0.00	328.41	9.11	0.00
N1004	0.00	322.12	111.68	0.00
N1005	0.00	321.79	106.49	0.00
N1006	0.00	321.79	112.80	0.00
N1007	0.00	321.79	112.80	0.00
N2001	0.00	322.12	111.68	0.00
N2002	0.00	152.07	4.85	0.00
N2003	0.00	152.07	4.93	0.00
N3001	0.00	216.00	7.15	0.00
N3002	0.00	197.25	42.81	0.00
N3003	0.00	170.41	4.78	0.00
N4001	0.00	233.43	66.82	0.00
N4002	0.00	233.43	3.43	0.00
N5001	0.00	170.34	3.98	0.00
N5002	0.00	170.34	114.11	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	153.99	82.07	0.00
N6002	0.00	134.35	100.86	0.00
N6003	0.00	136.78	104.32	0.00
N6004	351.94	81.49	30.54	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	321.77	106.48	0.00
NBRION	112.80	150.73	1.24	0.00
NACO	24.00	233.43	3.00	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-24.00	233.43	3.00	0.00 Tank
DBRION	62.84	150.96	1.46	0.00 Tank
DREG	-56.29	328.77	8.52	0.00 Tank
DETAP	-3.35	178.51	3.51	0.00 Tank

DCASTI	-253.29	216.07	5.82	0.00 Tank
DALDEA	-98.65	170.34	3.73	0.00 Tank

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Link Results at 32:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	353.35	1.80	7.58	Open
T0002	353.35	1.80	7.42	Open
T1001	409.64	1.45	3.77	Open
T1002	409.64	1.45	3.77	Open
T1003	409.64	1.45	3.77	Open
T1004	234.00	1.19	3.25	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	175.64	3.58	73.88	Open
T2002	175.64	3.58	73.88	Open
T3001	253.29	2.63	25.55	Open
T3002	253.29	2.63	25.54	Open
T3003	16.70	0.83	7.22	Open
T3004	16.70	0.83	7.22	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	236.59	2.46	22.28	Open
T6002	236.59	2.46	22.28	Open
T7001	115.35	1.63	12.05	Open
T7002	115.35	1.63	12.05	Open
T7003	351.94	3.66	49.31	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.25	Open
TBRION	112.80	1.60	11.53	Open
TACOST	24.00	0.34	0.52	Open
B001	353.35	0.00	-188.78	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.46	Active Valve
LCAU2	409.64	0.00	0.00	Open Valve
LCAU03	175.64	3.58	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	175.64	3.58	0.00	Open Valve

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Node Results at 33:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.51	34.57	0.00

N0001	0.00	367.18	223.24	0.00	
N0002	0.00	329.26	9.95	0.00	
N1001	0.00	328.56	13.65	0.00	
N1002	0.00	328.56	13.65	0.00	
N1003	0.00	328.09	8.79	0.00	
N1004	0.00	319.25	108.80	0.00	
N1005	0.00	318.65	103.35	0.00	
N1006	0.00	318.65	109.67	0.00	
N1007	0.00	318.65	109.67	0.00	
N2001	0.00	319.25	108.80	0.00	
N2002	0.00	152.93	5.71	0.00	
N2003	0.00	152.93	5.79	0.00	
N3001	0.00	214.98	6.13	0.00	
N3002	0.00	199.79	45.36	0.00	
N3003	0.00	169.03	3.40	0.00	
N4001	0.00	233.21	66.59	0.00	
N4002	0.00	233.21	3.21	0.00	
N5001	0.00	168.95	2.59	0.00	
N5002	0.00	168.95	112.71	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	165.69	93.77	0.00	
N6002	0.00	150.21	116.72	0.00	
N6003	0.00	151.47	119.02	0.00	
N6004	293.28	113.50	62.55	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	312.00	318.62	103.32	0.00	
NBRION	94.00	151.69	2.19	0.00	
NACO	20.00	233.21	2.77	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-20.00	233.21	2.77	0.00	Tank
DBRION	79.70	151.84	2.35	0.00	Tank
DREG	-132.07	328.59	8.34	0.00	Tank
DETAP	-3.63	178.50	3.50	0.00	Tank
DCASTI	-227.93	215.03	4.79	0.00	Tank
DALDEA	-65.35	168.95	2.33	0.00	Tank

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Link Results at 33:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.76	Open
T0001	353.63	1.80		7.60	Open
T0002	353.63	1.80		7.43	Open
T1001	485.70	1.72		5.30	Open
T1002	485.70	1.72		5.30	Open
T1003	485.70	1.72		5.30	Open
T1004	312.00	1.59		5.78	Open
T1005	0.00	0.00		0.00	Open
T1006	0.00	0.00		0.00	Closed
T2001	173.70	3.54		72.26	Open
T2002	173.70	3.54		72.26	Open
T3001	227.93	2.37		20.69	Open
T3002	227.93	2.37		20.68	Open

T3003	17.88	0.89	8.27	Open
T3004	17.88	0.89	8.27	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	210.05	2.18	17.57	Open
T6002	210.05	2.18	17.57	Open
T7001	83.23	1.18	6.27	Open
T7002	83.23	1.18	6.27	Open
T7003	293.28	3.05	34.24	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	312.00	1.59	5.78	Open
TBRION	94.00	1.33	8.00	Open
TACOST	20.00	0.28	0.36	Open
B001	353.63	0.00	-188.68	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.48	Active Valve
LCAU2	485.70	0.00	0.00	Open Valve
LCAU03	173.70	3.54	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	173.70	3.54	0.00	Open Valve

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Node Results at 34:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.49	34.55	0.00
N0001	0.00	366.91	222.97	0.00
N0002	0.00	328.84	9.54	0.00
N1001	0.00	328.16	13.24	0.00
N1002	0.00	328.16	13.24	0.00
N1003	0.00	327.82	8.52	0.00
N1004	0.00	321.57	111.13	0.00
N1005	0.00	321.23	105.94	0.00
N1006	0.00	321.23	112.25	0.00
N1007	0.00	321.23	112.25	0.00
N2001	0.00	321.57	111.13	0.00
N2002	0.00	154.06	6.84	0.00
N2003	0.00	154.06	6.92	0.00
N3001	0.00	214.06	5.21	0.00
N3002	0.00	202.13	47.69	0.00
N3003	0.00	168.12	2.48	0.00
N4001	0.00	233.02	66.40	0.00
N4002	0.00	233.02	3.02	0.00
N5001	0.00	168.03	1.67	0.00
N5002	0.00	168.03	111.79	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	176.17	104.25	0.00
N6002	0.00	164.38	130.89	0.00
N6003	0.00	164.63	132.17	0.00
N6004	219.96	143.73	92.78	0.00

NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	321.22	105.92	0.00
NBRION	70.50	152.88	3.38	0.00
NACO	15.00	233.02	2.58	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	233.02	2.59	0.00 Tank
DBRION	103.82	152.97	3.47	0.00 Tank
DREG	-54.00	328.18	7.93	0.00 Tank
DETAP	-4.32	178.48	3.48	0.00 Tank
DCASTI	-202.05	214.10	3.86	0.00 Tank
DALDEA	-17.91	168.03	1.41	0.00 Tank

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Link Results at 34:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	354.32	1.80	7.63	Open
T0002	354.32	1.80	7.46	Open
T1001	408.32	1.44	3.75	Open
T1002	408.32	1.44	3.75	Open
T1003	408.32	1.44	3.75	Open
T1004	234.00	1.19	3.25	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	174.32	3.55	72.78	Open
T2002	174.32	3.55	72.78	Open
T3001	202.05	2.10	16.25	Open
T3002	202.05	2.10	16.25	Open
T3003	18.80	0.94	9.15	Open
T3004	18.80	0.94	9.15	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	183.25	1.90	13.37	Open
T6002	183.25	1.90	13.37	Open
T7001	36.71	0.52	1.22	Open
T7002	36.71	0.52	1.22	Open
T7003	219.96	2.29	19.26	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.25	Open
TBRION	70.50	1.00	4.50	Open
TACOST	15.00	0.21	0.20	Open
B001	354.32	0.00	-188.43	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.50	Active Valve
LCAU2	408.32	0.00	0.00	Open Valve
LCAU03	174.32	3.55	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	174.32	3.55	0.00	Open Valve

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Node Results at 35:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.47	34.53	0.00
N0001	0.00	367.04	223.10	0.00
N0002	0.00	329.06	9.76	0.00
N1001	0.00	328.39	13.48	0.00
N1002	0.00	328.39	13.48	0.00
N1003	0.00	328.28	8.98	0.00
N1004	0.00	326.23	115.78	0.00
N1005	0.00	325.89	110.60	0.00
N1006	0.00	325.89	116.91	0.00
N1007	0.00	325.89	116.91	0.00
N2001	0.00	326.23	115.78	0.00
N2002	0.00	326.23	179.01	0.00
N2003	0.00	326.23	179.08	0.00
N3001	0.00	213.24	4.39	0.00
N3002	0.00	202.11	47.68	0.00
N3003	0.00	167.86	2.22	0.00
N4001	0.00	232.88	66.26	0.00
N4002	0.00	232.88	2.88	0.00
N5001	0.00	167.77	1.41	0.00
N5002	0.00	167.77	111.53	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	178.10	106.19	0.00
N6002	0.00	167.21	133.72	0.00
N6003	0.00	167.24	134.79	0.00
N6004	190.63	151.70	100.75	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	325.87	110.58	0.00
NBRION	61.10	152.63	3.13	0.00
NACO	13.00	232.88	2.44	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	232.88	2.44	0.00 Tank
DBRION	-61.10	152.69	3.20	0.00 Tank
DREG	119.92	328.40	8.15	0.00 Tank
DETAP	-3.92	178.47	3.47	0.00 Tank
DCASTI	-195.11	213.28	3.03	0.00 Tank
DALDEA	4.47	167.77	1.15	0.00 Tank

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Link Results at 35:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	353.92	1.80	7.61	Open
T0002	353.92	1.80	7.44	Open

T1001	234.00	0.83	1.23	Open
T1002	234.00	0.83	1.23	Open
T1003	234.00	0.83	1.23	Open
T1004	234.00	1.19	3.25	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	195.11	2.03	15.15	Open
T3002	195.11	2.03	15.15	Open
T3003	18.87	0.94	9.21	Open
T3004	18.87	0.94	9.21	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	176.24	1.83	12.37	Open
T6002	176.24	1.83	12.37	Open
T7001	14.39	0.20	0.19	Open
T7002	14.39	0.20	0.19	Open
T7003	190.63	1.98	14.47	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.25	Open
TBRION	61.10	0.86	3.38	Open
TACOST	13.00	0.18	0.15	Open
B001	353.92	0.00	-188.57	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.51	Active Valve
LCAU2	234.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 36:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.46	34.52	0.00
N0001	0.00	367.27	223.33	0.00
N0002	0.00	329.44	10.13	0.00
N1001	0.00	328.77	13.86	0.00
N1002	0.00	328.77	13.86	0.00
N1003	0.00	328.74	9.44	0.00
N1004	0.00	328.11	117.66	0.00
N1005	0.00	328.00	112.71	0.00
N1006	0.00	328.00	119.02	0.00
N1007	0.00	328.00	119.02	0.00
N2001	0.00	328.11	117.66	0.00
N2002	0.00	328.11	180.89	0.00
N2003	0.00	328.11	180.96	0.00
N3001	0.00	212.44	3.59	0.00
N3002	0.00	200.77	46.33	0.00

N3003	0.00	167.91	2.27	0.00
N4001	0.00	232.75	66.14	0.00
N4002	0.00	232.75	2.75	0.00
N5001	0.00	167.82	1.46	0.00
N5002	0.00	167.82	111.58	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	175.34	103.42	0.00
N6002	0.00	163.79	130.31	0.00
N6003	0.00	164.07	131.61	0.00
N6004	219.96	143.15	92.20	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	130.00	328.00	112.70	0.00
NBRION	70.50	151.74	2.24	0.00
NACO	15.00	232.75	2.32	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-15.00	232.75	2.32	0.00 Tank
DBRION	-70.50	151.83	2.33	0.00 Tank
DREG	223.24	328.78	8.53	0.00 Tank
DETAP	-3.24	178.45	3.45	0.00 Tank
DCASTI	-199.86	212.48	2.24	0.00 Tank
DALDEA	-20.10	167.82	1.20	0.00 Tank

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Link Results at 36:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	353.24	1.80	7.58	Open
T0002	353.24	1.80	7.41	Open
T1001	130.00	0.46	0.38	Open
T1002	130.00	0.46	0.38	Open
T1003	130.00	0.46	0.38	Open
T1004	130.00	0.66	1.00	Open
T1005	0.00	0.00	0.00	Open
T1006	0.00	0.00	0.00	Closed
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	199.86	2.08	15.90	Open
T3002	199.86	2.08	15.90	Open
T3003	18.48	0.92	8.84	Open
T3004	18.48	0.92	8.84	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	181.38	1.89	13.10	Open
T6002	181.38	1.89	13.10	Open
T7001	38.58	0.55	1.35	Open
T7002	38.58	0.55	1.35	Open
T7003	219.96	2.29	19.26	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open

TBRION	70.50	1.00	4.50	Open
TACOST	15.00	0.21	0.20	Open
B001	353.24	0.00	-188.82	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.53	Active Valve
LCAU2	130.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	0.00	0.00	0.00	Open Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 37:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.45	34.51	0.00
N0001	0.00	367.42	223.47	0.00
N0002	0.00	329.67	10.37	0.00
N1001	0.00	329.00	14.08	0.00
N1002	0.00	329.00	14.08	0.00
N1003	0.00	328.77	9.46	0.00
N1004	0.00	324.43	113.99	0.00
N1005	0.00	323.72	108.43	0.00
N1006	0.00	312.50	103.52	0.00
N1007	0.00	212.66	3.68	0.00
N2001	0.00	324.43	113.99	0.00
N2002	0.00	324.43	177.21	0.00
N2003	0.00	324.43	177.29	0.00
N3001	0.00	212.22	3.38	0.00
N3002	0.00	198.76	44.32	0.00
N3003	0.00	167.62	1.98	0.00
N4001	0.00	232.61	65.99	0.00
N4002	0.00	232.61	2.61	0.00
N5001	0.00	167.53	1.17	0.00
N5002	0.00	167.53	111.30	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	168.86	96.94	0.00
N6002	0.00	155.29	121.80	0.00
N6003	0.00	156.11	123.66	0.00
N6004	263.95	125.55	74.61	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	130.00	323.71	108.42	0.00
NBRION	84.60	150.71	1.21	0.00
NACO	18.00	232.61	2.18	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-18.00	232.61	2.18	0.00 Tank
DBRION	-84.60	150.83	1.33	0.00 Tank
DREG	12.81	329.01	8.76	0.00 Tank
DETAP	-2.81	178.44	3.44	0.00 Tank
DCASTI	-4.66	212.27	2.03	0.00 Tank
DALDEA	-49.29	167.53	0.92	0.00 Tank

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Link Results at 37:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	352.81	1.80	7.56	Open
T0002	352.81	1.80	7.40	Open
T1001	340.00	1.20	2.60	Open
T1002	340.00	1.20	2.60	Open
T1003	340.00	1.20	2.60	Open
T1004	340.00	1.73	6.87	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	214.66	2.23	18.35	Open
T3002	214.66	2.23	18.35	Open
T3003	17.99	0.89	8.38	Open
T3004	17.99	0.89	8.38	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	196.67	2.04	15.40	Open
T6002	196.67	2.04	15.40	Open
T7001	67.28	0.95	4.10	Open
T7002	67.28	0.95	4.10	Open
T7003	263.95	2.74	27.74	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open
TBRION	84.60	1.20	6.48	Open
TACOST	18.00	0.25	0.29	Open
B001	352.81	0.00	-188.98	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.54	Active Valve
LCAU2	340.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	99.84	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 38:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.44	34.49	0.00
N0001	0.00	367.19	223.25	0.00
N0002	0.00	329.32	10.01	0.00
N1001	0.00	328.62	13.71	0.00

N1002	0.00	328.62	13.71	0.00	
N1003	0.00	328.09	8.79	0.00	
N1004	0.00	318.21	107.77	0.00	
N1005	0.00	317.50	102.21	0.00	
N1006	0.00	306.28	97.30	0.00	
N1007	0.00	212.63	3.65	0.00	
N2001	0.00	318.21	107.77	0.00	
N2002	0.00	152.49	5.27	0.00	
N2003	0.00	152.49	5.35	0.00	
N3001	0.00	212.19	3.35	0.00	
N3002	0.00	198.63	44.19	0.00	
N3003	0.00	166.96	1.32	0.00	
N4001	0.00	232.44	65.82	0.00	
N4002	0.00	232.44	2.44	0.00	
N5001	0.00	166.87	0.51	0.00	
N5002	0.00	166.87	110.64	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	168.53	96.61	0.00	
N6002	0.00	154.87	121.38	0.00	
N6003	0.00	155.68	123.22	0.00	
N6004	263.95	125.13	74.18	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	130.00	317.50	102.20	0.00	
NBRION	84.60	151.28	1.78	0.00	
NACO	18.00	232.44	2.01	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-18.00	232.44	2.01	0.00	Tank
DBRION	88.79	151.41	1.91	0.00	Tank
DREG	-159.99	328.66	8.41	0.00	Tank
DETAP	-3.40	178.43	3.43	0.00	Tank
DCASTI	-5.47	212.24	2.00	0.00	Tank
DALDEA	-48.48	166.87	0.26	0.00	Tank

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Link Results at 38:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	353.40	1.80	7.59	Open
T0002	353.40	1.80	7.42	Open
T1001	513.39	1.82	5.92	Open
T1002	513.39	1.82	5.92	Open
T1003	513.39	1.82	5.92	Open
T1004	340.00	1.73	6.87	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	173.39	3.53	72.00	Open
T2002	173.39	3.53	72.00	Open
T3001	215.47	2.24	18.49	Open
T3002	215.47	2.24	18.48	Open
T3003	18.14	0.90	8.52	Open
T3004	18.14	0.90	8.52	Open
T4001	0.00	0.00	0.00	Open

T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	197.33	2.05	15.50	Open
T6002	197.33	2.05	15.50	Open
T7001	66.62	0.94	4.02	Open
T7002	66.62	0.94	4.02	Open
T7003	263.95	2.74	27.74	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	130.00	0.66	1.00	Open
TBRION	84.60	1.20	6.48	Open
TACOST	18.00	0.25	0.29	Open
B001	353.40	0.00	-188.76	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.55	Active Valve
LCAU2	513.39	0.00	0.00	Open Valve
LCAU03	173.39	3.53	0.00	Open Valve
2	210.00	1.32	93.65	Active Valve
3	173.39	3.53	0.00	Open Valve

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Node Results at 39:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.42	34.48	0.00
N0001	0.00	366.87	222.92	0.00
N0002	0.00	328.81	9.51	0.00
N1001	0.00	328.11	13.19	0.00
N1002	0.00	328.11	13.19	0.00
N1003	0.00	327.44	8.14	0.00
N1004	0.00	315.00	104.56	0.00
N1005	0.00	313.99	98.70	0.00
N1006	0.00	302.77	93.79	0.00
N1007	0.00	212.41	3.43	0.00
N2001	0.00	315.00	104.56	0.00
N2002	0.00	153.71	6.49	0.00
N2003	0.00	153.71	6.57	0.00
N3001	0.00	211.98	3.14	0.00
N3002	0.00	200.22	45.78	0.00
N3003	0.00	166.95	1.32	0.00
N4001	0.00	232.27	65.65	0.00
N4002	0.00	232.27	2.27	0.00
N5001	0.00	166.87	0.51	0.00
N5002	0.00	166.87	110.63	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	174.60	102.69	0.00
N6002	0.00	162.98	129.49	0.00
N6003	0.00	163.24	130.78	0.00
N6004	219.96	142.33	91.38	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	195.00	313.98	98.69	0.00
NBRION	70.50	152.57	3.07	0.00

NACO	15.00	232.27	1.84	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-15.00	232.27	1.84	0.00	Tank
DBRION	100.56	152.66	3.16	0.00	Tank
DREG	-221.81	328.15	7.90	0.00	Tank
DETAP	-4.24	178.41	3.41	0.00	Tank
DCASTI	9.36	212.03	1.78	0.00	Tank
DALDEA	-19.32	166.87	0.25	0.00	Tank

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Link Results at 39:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.75	Open
T0001	354.24	1.80		7.62	Open
T0002	354.24	1.80		7.46	Open
T1001	576.06	2.04		7.45	Open
T1002	576.06	2.04		7.46	Open
T1003	576.06	2.04		7.46	Open
T1004	405.00	2.06		9.75	Open
T1005	210.00	1.32		4.60	Open
T1006	210.00	1.67	598.15		Open
T2001	171.06	3.48		70.08	Open
T2002	171.06	3.48		70.08	Open
T3001	200.64	2.09		16.02	Open
T3002	200.64	2.09		16.03	Open
T3003	18.59	0.92		8.95	Open
T3004	18.59	0.92		8.95	Open
T4001	0.00	0.00		0.00	Open
T4002	0.00	0.00		0.00	Open
T5001	0.00	0.00		0.00	Open
T5002	0.00	0.00		0.00	Open
T5003	0.00	0.00		0.00	Open
T6001	182.04	1.89		13.19	Open
T6002	182.04	1.89		13.19	Open
T7001	37.92	0.54		1.30	Open
T7002	37.92	0.54		1.30	Open
T7003	219.96	2.29		19.26	Open
TCAPT	350.00	1.24		2.75	Open
TPOLIND	195.00	0.99		2.26	Open
TBRION	70.50	1.00		4.50	Open
TACOST	15.00	0.21		0.20	Open
B001	354.24	0.00	-188.46		Open Pump
B002	0.00	0.00	0.00		Closed Pump
B003	0.00	0.00	0.00		Closed Pump
V001	350.00	1.24		21.57	Active Valve
LCAU2	576.06	0.00		0.00	Open Valve
LCAU03	171.06	3.48		0.00	Open Valve
2	210.00	1.32		90.36	Active Valve
3	171.06	3.48		0.00	Open Valve

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Node Results at 40:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.40	34.46	0.00
N0001	0.00	366.58	222.64	0.00
N0002	0.00	328.37	9.07	0.00
N1001	0.00	327.68	12.77	0.00
N1002	0.00	327.68	12.77	0.00
N1003	0.00	327.29	7.99	0.00
N1004	0.00	319.90	109.45	0.00
N1005	0.00	318.68	103.39	0.00
N1006	0.00	307.46	98.48	0.00
N1007	0.00	212.37	3.39	0.00
N2001	0.00	319.90	109.45	0.00
N2002	0.00	319.90	172.68	0.00
N2003	0.00	319.90	172.76	0.00
N3001	0.00	211.94	3.10	0.00
N3002	0.00	201.04	46.60	0.00
N3003	0.00	166.97	1.33	0.00
N4001	0.00	232.13	65.51	0.00
N4002	0.00	232.13	2.13	0.00
N5001	0.00	166.88	0.52	0.00
N5002	0.00	166.88	110.64	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	177.54	105.62	0.00
N6002	0.00	166.87	133.38	0.00
N6003	0.00	166.87	134.41	0.00
N6004	175.97	153.65	102.70	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	234.00	318.67	103.37	0.00
NBRION	56.40	152.86	3.37	0.00
NACO	12.00	232.13	1.69	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-12.00	232.13	1.69	0.00 Tank
DBRION	-56.40	152.92	3.42	0.00 Tank
DREG	-89.03	327.71	7.46	0.00 Tank
DETAP	-4.97	178.39	3.39	0.00 Tank
DCASTI	16.84	211.98	1.74	0.00 Tank
DALDEA	17.19	166.88	0.26	0.00 Tank

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Link Results at 40:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit	Headloss m/km	Status
T0000	350.00	1.24		2.76	Open
T0001	354.97	1.81		7.65	Open
T0002	354.97	1.81		7.49	Open
T1001	444.00	1.57		4.43	Open
T1002	444.00	1.57		4.43	Open
T1003	444.00	1.57		4.43	Open

T1004	444.00	2.26	11.71	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.12	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	193.16	2.01	14.86	Open
T3002	193.16	2.01	14.86	Open
T3003	18.82	0.94	9.16	Open
T3004	18.82	0.94	9.16	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	174.34	1.81	12.10	Open
T6002	174.34	1.81	12.10	Open
T7001	1.62	0.02	0.00	Open
T7002	1.62	0.02	0.00	Open
T7003	175.97	1.83	12.33	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	234.00	1.19	3.25	Open
TBRION	56.40	0.80	2.88	Open
TACOST	12.00	0.17	0.13	Open
B001	354.97	0.00	-188.19	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.59	Active Valve
LCAU2	444.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	95.09	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 41:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.38	34.44	0.00
N0001	0.00	366.40	222.46	0.00
N0002	0.00	328.09	8.79	0.00
N1001	0.00	327.39	12.48	0.00
N1002	0.00	327.39	12.48	0.00
N1003	0.00	326.85	7.54	0.00
N1004	0.00	316.63	106.19	0.00
N1005	0.00	314.95	99.66	0.00
N1006	0.00	303.73	94.75	0.00
N1007	0.00	212.44	3.46	0.00
N2001	0.00	316.63	106.19	0.00
N2002	0.00	316.63	169.41	0.00
N2003	0.00	316.63	169.49	0.00
N3001	0.00	212.01	3.17	0.00
N3002	0.00	201.50	47.06	0.00
N3003	0.00	167.21	1.57	0.00
N4001	0.00	232.01	65.40	0.00
N4002	0.00	232.01	2.01	0.00

N5001	0.00	167.12	0.76	0.00
N5002	0.00	167.12	110.88	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	178.94	107.02	0.00
N6002	0.00	168.70	135.21	0.00
N6003	0.00	168.59	136.14	0.00
N6004	146.64	159.52	108.57	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	312.00	314.92	99.63	0.00
NBRION	47.00	152.08	2.59	0.00
NACO	10.00	232.01	1.58	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-10.00	232.01	1.58	0.00 Tank
DBRION	-47.00	152.12	2.63	0.00 Tank
DREG	-166.59	327.43	7.18	0.00 Tank
DETAP	-5.41	178.37	3.37	0.00 Tank
DCASTI	20.27	212.05	1.81	0.00 Tank
DALDEA	43.09	167.12	0.50	0.00 Tank

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Link Results at 41:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	355.41	1.81	7.67	Open
T0002	355.41	1.81	7.51	Open
T1001	522.00	1.85	6.13	Open
T1002	522.00	1.85	6.12	Open
T1003	522.00	1.85	6.12	Open
T1004	522.00	2.66	16.19	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	189.73	1.97	14.33	Open
T3002	189.73	1.97	14.33	Open
T3003	18.88	0.94	9.22	Open
T3004	18.88	0.94	9.22	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	170.85	1.78	11.62	Open
T6002	170.85	1.78	11.62	Open
T7001	-24.21	0.34	0.53	Open
T7002	-24.21	0.34	0.53	Open
T7003	146.64	1.52	8.56	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	312.00	1.59	5.78	Open
TBRION	47.00	0.66	2.00	Open
TACOST	10.00	0.14	0.09	Open

B001	355.41	0.00	-188.03	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.61	Active Valve
LCAU2	522.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	91.29	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 42:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.36	34.41	0.00
N0001	0.00	366.06	222.12	0.00
N0002	0.00	327.57	8.27	0.00
N1001	0.00	326.88	11.96	0.00
N1002	0.00	326.88	11.96	0.00
N1003	0.00	326.55	7.25	0.00
N1004	0.00	320.40	109.96	0.00
N1005	0.00	319.39	104.09	0.00
N1006	0.00	308.17	99.18	0.00
N1007	0.00	212.52	3.54	0.00
N2001	0.00	320.40	109.96	0.00
N2002	0.00	320.40	173.18	0.00
N2003	0.00	320.40	173.26	0.00
N3001	0.00	212.10	3.25	0.00
N3002	0.00	201.20	46.77	0.00
N3003	0.00	167.81	2.17	0.00
N4001	0.00	231.92	65.30	0.00
N4002	0.00	231.92	1.92	0.00
N5001	0.00	167.72	1.36	0.00
N5002	0.00	167.72	111.48	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	177.69	105.77	0.00
N6002	0.00	167.01	133.52	0.00
N6003	0.00	167.06	134.60	0.00
N6004	190.63	151.50	100.55	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	195.00	319.38	104.08	0.00
NBRION	61.10	151.39	1.89	0.00
NACO	13.00	231.92	1.49	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-13.00	231.92	1.49	0.00 Tank
DBRION	-61.10	151.46	1.96	0.00 Tank
DREG	-48.73	326.90	6.65	0.00 Tank
DETAP	-6.27	178.35	3.35	0.00 Tank
DCASTI	16.95	212.14	1.89	0.00 Tank
DALDEA	2.41	167.72	1.10	0.00 Tank

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Link Results at 42:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	356.27	1.81	7.71	Open
T0002	356.27	1.81	7.54	Open
T1001	405.00	1.43	3.69	Open
T1002	405.00	1.43	3.69	Open
T1003	405.00	1.43	3.69	Open
T1004	405.00	2.06	9.75	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.12	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	193.05	2.01	14.84	Open
T3002	193.05	2.01	14.84	Open
T3003	18.63	0.93	8.98	Open
T3004	18.63	0.93	8.98	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	174.41	1.81	12.11	Open
T6002	174.41	1.81	12.11	Open
T7001	16.22	0.23	0.24	Open
T7002	16.22	0.23	0.24	Open
T7003	190.63	1.98	14.47	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	195.00	0.99	2.26	Open
TBRION	61.10	0.86	3.38	Open
TACOST	13.00	0.18	0.15	Open
B001	356.27	0.00	-187.71	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.63	Active Valve
LCAU2	405.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	95.64	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 43:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.33	34.39	0.00
N0001	0.00	365.95	222.01	0.00
N0002	0.00	327.42	8.11	0.00
N1001	0.00	326.72	11.81	0.00
N1002	0.00	326.72	11.81	0.00
N1003	0.00	326.39	7.09	0.00
N1004	0.00	320.25	109.80	0.00

N1005	0.00	319.23	103.94	0.00	
N1006	0.00	308.01	99.03	0.00	
N1007	0.00	212.59	3.61	0.00	
N2001	0.00	320.25	109.80	0.00	
N2002	0.00	320.25	173.03	0.00	
N2003	0.00	320.25	173.10	0.00	
N3001	0.00	212.17	3.32	0.00	
N3002	0.00	202.60	48.17	0.00	
N3003	0.00	167.85	2.21	0.00	
N4001	0.00	231.80	65.18	0.00	
N4002	0.00	231.80	1.80	0.00	
N5001	0.00	167.75	1.39	0.00	
N5002	0.00	167.75	111.52	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	182.34	110.42	0.00	
N6002	0.00	173.14	139.65	0.00	
N6003	0.00	172.78	140.32	0.00	
N6004	117.31	167.27	116.32	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	195.00	319.22	103.93	0.00	
NBRION	37.60	150.57	1.07	0.00	
NACO	8.00	231.80	1.36	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-8.00	231.80	1.36	0.00	Tank
DBRION	-37.60	150.59	1.10	0.00	Tank
DREG	-48.51	326.74	6.49	0.00	Tank
DETAP	-6.49	178.32	3.32	0.00	Tank
DCASTI	29.06	212.21	1.96	0.00	Tank
DALDEA	63.62	167.75	1.14	0.00	Tank

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Link Results at 43:00 Hrs: Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	356.49	1.82	7.72	Open
T0002	356.49	1.82	7.55	Open
T1001	405.00	1.43	3.68	Open
T1002	405.00	1.43	3.69	Open
T1003	405.00	1.43	3.69	Open
T1004	405.00	2.06	9.75	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	180.94	1.88	13.04	Open
T3002	180.94	1.88	13.03	Open
T3003	19.01	0.95	9.35	Open
T3004	19.01	0.95	9.35	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open

T5003	0.00	0.00	0.00	Open
T6001	161.93	1.68	10.44	Open
T6002	161.93	1.68	10.44	Open
T7001	-44.62	0.63	1.80	Open
T7002	-44.62	0.63	1.80	Open
T7003	117.31	1.22	5.48	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	195.00	0.99	2.26	Open
TBRION	37.60	0.53	1.28	Open
TACOST	8.00	0.11	0.06	Open
B001	356.49	0.00	-187.63	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.66	Active Valve
LCAU2	405.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	95.42	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 44:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.30	34.36	0.00
N0001	0.00	365.57	221.63	0.00
N0002	0.00	326.82	7.52	0.00
N1001	0.00	326.12	11.21	0.00
N1002	0.00	326.12	11.21	0.00
N1003	0.00	325.72	6.42	0.00
N1004	0.00	318.19	107.75	0.00
N1005	0.00	317.73	102.43	0.00
N1006	0.00	306.51	97.52	0.00
N1007	0.00	212.71	3.73	0.00
N2001	0.00	318.19	107.75	0.00
N2002	0.00	153.12	5.90	0.00
N2003	0.00	153.12	5.98	0.00
N3001	0.00	212.29	3.44	0.00
N3002	0.00	202.86	48.42	0.00
N3003	0.00	168.74	3.10	0.00
N4001	0.00	231.72	65.10	0.00
N4002	0.00	231.72	1.72	0.00
N5001	0.00	168.65	2.29	0.00
N5002	0.00	168.65	112.41	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	182.86	110.94	0.00
N6002	0.00	173.78	140.29	0.00
N6003	0.00	173.43	140.98	0.00
N6004	117.31	167.90	116.96	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	65.00	317.73	102.43	0.00
NBRION	37.60	152.02	2.52	0.00
NACO	8.00	231.72	1.29	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir

DACOSTA	-8.00	231.72	1.29	0.00	Tank
DBRION	135.45	152.04	2.55	0.00	Tank
DREG	-90.60	326.15	5.90	0.00	Tank
DETAP	-7.45	178.29	3.29	0.00	Tank
DCASTI	30.31	212.33	2.08	0.00	Tank
DALDEA	62.38	168.65	2.03	0.00	Tank

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Link Results at 44:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	357.45	1.82	7.76	Open
T0002	357.45	1.82	7.59	Open
T1001	448.05	1.58	4.51	Open
T1002	448.05	1.58	4.51	Open
T1003	448.05	1.58	4.51	Open
T1004	275.00	1.40	4.49	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	173.05	3.53	71.72	Open
T2002	173.05	3.53	71.72	Open
T3001	179.69	1.87	12.85	Open
T3002	179.69	1.87	12.85	Open
T3003	18.83	0.94	9.18	Open
T3004	18.83	0.94	9.18	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	160.86	1.67	10.30	Open
T6002	160.86	1.67	10.30	Open
T7001	-43.55	0.62	1.72	Open
T7002	-43.55	0.62	1.72	Open
T7003	117.31	1.22	5.48	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	65.00	0.33	0.25	Open
TBRION	37.60	0.53	1.28	Open
TACOST	8.00	0.11	0.06	Open
B001	357.45	0.00	-187.27	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.68	Active Valve
LCAU2	448.05	0.00	0.00	Open Valve
LCAU03	173.05	3.53	0.00	Open Valve
2	210.00	1.32	93.79	Active Valve
3	173.05	3.53	0.00	Open Valve

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Node Results at 45:00 Hrs:

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.27	34.33	0.00
N0001	0.00	365.48	221.54	0.00
N0002	0.00	326.70	7.40	0.00
N1001	0.00	326.01	11.10	0.00
N1002	0.00	326.01	11.10	0.00
N1003	0.00	325.89	6.59	0.00
N1004	0.00	323.56	113.12	0.00
N1005	0.00	323.18	107.89	0.00
N1006	0.00	311.96	102.98	0.00
N1007	0.00	212.84	3.86	0.00
N2001	0.00	323.56	113.12	0.00
N2002	0.00	323.56	176.35	0.00
N2003	0.00	323.56	176.42	0.00
N3001	0.00	212.42	3.58	0.00
N3002	0.00	204.85	50.41	0.00
N3003	0.00	169.61	3.98	0.00
N4001	0.00	231.64	65.03	0.00
N4002	0.00	231.64	1.64	0.00
N5001	0.00	169.52	3.16	0.00
N5002	0.00	169.52	113.28	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	189.29	117.38	0.00
N6002	0.00	182.23	148.74	0.00
N6003	0.00	181.38	148.92	0.00
N6004	73.32	179.94	128.99	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	39.00	323.18	107.89	0.00
NBRION	23.50	153.23	3.74	0.00
NACO	5.00	231.64	1.21	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-5.00	231.64	1.21	0.00 Tank
DBRION	-23.50	153.24	3.74	0.00 Tank
DREG	108.61	326.02	5.77	0.00 Tank
DETAP	-7.61	178.26	3.26	0.00 Tank
DCASTI	48.98	212.45	2.21	0.00 Tank
DALDEA	87.70	169.52	2.91	0.00 Tank

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Link Results at 45:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.75	Open
T0001	357.61	1.82	7.77	Open
T0002	357.61	1.82	7.60	Open
T1001	249.00	0.88	1.39	Open
T1002	249.00	0.88	1.39	Open
T1003	249.00	0.88	1.39	Open
T1004	249.00	1.27	3.68	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open

T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	161.02	1.67	10.32	Open
T3002	161.02	1.67	10.32	Open
T3003	19.14	0.95	9.48	Open
T3004	19.14	0.95	9.48	Open
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	141.89	1.47	8.01	Open
T6002	141.89	1.47	8.01	Open
T7001	-68.57	0.97	4.26	Open
T7002	-68.57	0.97	4.26	Open
T7003	73.32	0.76	2.14	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	39.00	0.20	0.09	Open
TBRION	23.50	0.33	0.50	Open
TACOST	5.00	0.07	0.02	Open
B001	357.61	0.00	-187.21	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.72	Active Valve
LCAU2	249.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	99.12	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 46:00 Hrs:

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Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.24	34.30	0.00
N0001	0.00	365.68	221.74	0.00
N0002	0.00	327.04	7.74	0.00
N1001	0.00	326.36	11.44	0.00
N1002	0.00	326.36	11.44	0.00
N1003	0.00	326.25	6.94	0.00
N1004	0.00	324.16	113.71	0.00
N1005	0.00	323.81	108.52	0.00
N1006	0.00	312.59	103.61	0.00
N1007	0.00	213.08	4.10	0.00
N2001	0.00	324.16	113.71	0.00
N2002	0.00	324.16	176.94	0.00
N2003	0.00	324.16	177.02	0.00
N3001	0.00	212.69	3.85	0.00
N3002	0.00	212.13	57.69	0.00
N3003	0.00	212.13	46.49	0.00
N4001	0.00	231.60	64.98	0.00
N4002	0.00	231.60	1.60	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00

N6001	0.00	210.63	138.72	0.00
N6002	0.00	209.95	176.46	0.00
N6003	0.00	209.95	177.50	0.00
N6004	43.99	209.13	158.18	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	26.00	323.81	108.52	0.00
NBRION	14.10	152.91	3.41	0.00
NACO	3.00	231.60	1.16	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-3.00	231.60	1.16	0.00 Tank
DBRION	-14.10	152.91	3.41	0.00 Tank
DREG	120.98	326.36	6.11	0.00 Tank
DETAP	-6.98	178.23	3.23	0.00 Tank
DCASTI	166.01	212.69	2.45	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 46:00 Hrs:

Ames

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	356.98	1.82	7.74	Open
T0002	356.98	1.82	7.57	Open
T1001	236.00	0.83	1.25	Open
T1002	236.00	0.83	1.25	Open
T1003	236.00	0.83	1.25	Open
T1004	236.00	1.20	3.31	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	43.99	0.46	0.76	Open
T3002	43.99	0.46	0.77	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	43.99	0.46	0.77	Open
T6002	43.99	0.46	0.77	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	43.99	0.46	0.77	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	26.00	0.13	0.04	Open
TBRION	14.10	0.20	0.18	Open
TACOST	3.00	0.04	0.01	Open
B001	356.98	0.00	-187.45	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.75	Active Valve

LCAU2	236.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	99.51	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 47:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.21	34.27	0.00
N0001	0.00	365.91	221.97	0.00
N0002	0.00	327.42	8.12	0.00
N1001	0.00	326.74	11.83	0.00
N1002	0.00	326.74	11.83	0.00
N1003	0.00	326.64	7.34	0.00
N1004	0.00	324.78	114.33	0.00
N1005	0.00	324.47	109.18	0.00
N1006	0.00	313.25	104.27	0.00
N1007	0.00	213.76	4.78	0.00
N2001	0.00	324.78	114.33	0.00
N2002	0.00	324.78	177.56	0.00
N2003	0.00	324.78	177.64	0.00
N3001	0.00	213.37	4.52	0.00
N3002	0.00	213.12	58.69	0.00
N3003	0.00	213.12	47.49	0.00
N4001	0.00	231.57	64.95	0.00
N4002	0.00	231.57	1.57	0.00
N5001	0.00	170.62	4.26	0.00
N5002	0.00	170.62	114.38	0.00
N5003	0.00	56.24	0.00	0.00
N6001	0.00	212.46	140.54	0.00
N6002	0.00	212.15	178.67	0.00
N6003	0.00	212.15	179.70	0.00
N6004	29.33	211.79	160.84	0.00
NETAP	0.00	199.99	50.99	0.00
NPOLIND	13.00	324.47	109.18	0.00
NBRION	9.40	152.71	3.21	0.00
NACO	2.00	231.57	1.14	0.00
RIO	-350.00	200.00	0.00	0.00 Reservoir
QUIST	0.00	56.24	0.00	0.00 Reservoir
DACOSTA	-2.00	231.57	1.14	0.00 Tank
DBRION	-9.40	152.71	3.21	0.00 Tank
DREG	133.28	326.75	6.50	0.00 Tank
DETAP	-6.28	178.20	3.20	0.00 Tank
DCASTI	180.67	213.37	3.13	0.00 Tank
DALDEA	0.00	170.62	4.00	0.00 Tank

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Link Results at 47:00 Hrs: Ames

Link	Flow	Velocity	Unit	Headloss	Status
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ID	LPS	m/s	m/km	
T0000	350.00	1.24	2.76	Open
T0001	356.28	1.81	7.71	Open
T0002	356.28	1.81	7.54	Open
T1001	223.00	0.79	1.12	Open
T1002	223.00	0.79	1.12	Open
T1003	223.00	0.79	1.12	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	29.33	0.30	0.34	Open
T3002	29.33	0.30	0.34	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	29.33	0.30	0.34	Open
T6002	29.33	0.30	0.34	Open
T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	356.28	0.00	-187.71	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.77	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	99.49	Active Valve
3	0.00	0.00	0.00	Open Valve

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Node Results at 48:00 Hrs: Ames

Node ID	Demand LPS	Head m	Pressure m	Quality
N0000	0.00	178.19	34.25	0.00
N0001	0.00	366.17	222.22	0.00
N0002	0.00	327.84	8.54	0.00
N1001	0.00	327.16	12.25	0.00
N1002	0.00	327.16	12.25	0.00
N1003	0.00	327.06	7.76	0.00
N1004	0.00	325.20	114.75	0.00
N1005	0.00	324.89	109.60	0.00
N1006	0.00	313.67	104.69	0.00
N1007	0.00	214.50	5.52	0.00

N2001	0.00	325.20	114.75	0.00	
N2002	0.00	325.20	177.98	0.00	
N2003	0.00	325.20	178.06	0.00	
N3001	0.00	214.11	5.26	0.00	
N3002	0.00	213.86	59.42	0.00	
N3003	0.00	213.86	48.22	0.00	
N4001	0.00	231.55	64.93	0.00	
N4002	0.00	231.55	1.55	0.00	
N5001	0.00	170.62	4.26	0.00	
N5002	0.00	170.62	114.38	0.00	
N5003	0.00	56.24	0.00	0.00	
N6001	0.00	213.19	141.28	0.00	
N6002	0.00	212.89	179.40	0.00	
N6003	0.00	212.89	180.44	0.00	
N6004	29.33	212.52	161.58	0.00	
NETAP	0.00	199.99	50.99	0.00	
NPOLIND	13.00	324.89	109.60	0.00	
NBRION	9.40	152.58	3.08	0.00	
NACO	2.00	231.55	1.12	0.00	
RIO	-350.00	200.00	0.00	0.00	Reservoir
QUIST	0.00	56.24	0.00	0.00	Reservoir
DACOSTA	-2.00	231.55	1.12	0.00	Tank
DBRION	-9.40	152.58	3.08	0.00	Tank
DREG	132.52	327.17	6.92	0.00	Tank
DETAP	-5.52	178.18	3.18	0.00	Tank
DCASTI	180.67	214.11	3.87	0.00	Tank
DALDEA	0.00	170.62	4.00	0.00	Tank

T7001	0.00	0.00	0.00	Closed
T7002	0.00	0.00	0.00	Open
T7003	29.33	0.30	0.34	Open
TCAPT	350.00	1.24	2.75	Open
TPOLIND	13.00	0.07	0.01	Open
TBRION	9.40	0.13	0.08	Open
TACOST	2.00	0.03	0.00	Open
B001	355.52	0.00	-187.98	Open Pump
B002	0.00	0.00	0.00	Closed Pump
B003	0.00	0.00	0.00	Closed Pump
V001	350.00	1.24	21.80	Active Valve
LCAU2	223.00	0.00	0.00	Open Valve
LCAU03	0.00	0.00	0.00	Open Valve
2	210.00	1.32	99.17	Active Valve
3	0.00	0.00	0.00	Open Valve

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Link Results at 48:00 Hrs:

Link ID	Flow LPS	Velocity m/s	Unit Headloss m/km	Status
T0000	350.00	1.24	2.76	Open
T0001	355.52	1.81	7.68	Open
T0002	355.52	1.81	7.51	Open
T1001	223.00	0.79	1.12	Open
T1002	223.00	0.79	1.12	Open
T1003	223.00	0.79	1.12	Open
T1004	223.00	1.14	2.95	Open
T1005	210.00	1.32	4.60	Open
T1006	210.00	1.67	598.15	Open
T2001	0.00	0.00	0.00	Open
T2002	0.00	0.00	0.00	Closed
T3001	29.33	0.30	0.35	Open
T3002	29.33	0.30	0.34	Open
T3003	0.00	0.00	0.00	Open
T3004	0.00	0.00	0.00	Closed
T4001	0.00	0.00	0.00	Open
T4002	0.00	0.00	0.00	Open
T5001	0.00	0.00	0.00	Open
T5002	0.00	0.00	0.00	Open
T5003	0.00	0.00	0.00	Open
T6001	29.33	0.30	0.34	Open
T6002	29.33	0.30	0.34	Open