SHEET: COW-A1 (05/2005)

LCP-S301A

WS-P0010

WS-P0009

LI S310 B | LI S320 B | LI S330 B | LI S340 B

LA S310 A — TANK HIGH LEVEL — DO

LA S320 A — TANK HIGH LEVEL — DO

LA S330 A — TANK HIGH LEVEL — DO

LA S340 A — TANK HIGH LEVEL — DO

H: LA S310A | LA S320A | LA S330A | LA S340A

ZD S310 A — INLET VALVE OPEN — DO

ZD S320 A — INLET VALVE OPEN — DO

ZD S330 A — INLET VALVE OPEN — DO

ZD S340 A — INLET VALVE OPEN — DO

OPEN: ZD S310D | ZD S320D | ZD S330D | ZD S340D

TK-S310A | TK-S320A | TK-S330A | TK-S340A

HS S300 B | HS S300 C | HS S300 D | HS S300 E — TANK SELECTOR SWITCH

START FILL: HS S300 A — TK-S310A

START AIR PURGE: HS S300 G — TK-S320A

START STEAM SYSTEM: HS S300 F — TK-S330A

PURGE COMPLETE: XM S301A — TK-S340A

HS S300 A — START FILL — DI

HS S300 B — SELECT TK-S110A TO FILL — DI

HS S300 C — SELECT TK-S120A TO FILL — DI

HS S300 D — SELECT TK-S130A TO FILL — DI

HS S300 E — SELECT TK-S140A TO FILL — DI

YD S300 F — START STEAM SYSTEM — DI

HS S300 G — START AIR PURGE — DI

XM S301 A — PURGE COMPLETE — DO

OPEN FILL VALVE: YD S300 A — DO

PI S300 A

AIR FROM COMPRESSORS

CA – 25

HV-S300A | PCV-S300A | PRV-S300A

HV-S300E

CA – 20

KO

CV-S300B | HV-S300B

SOL-S300A

S | CV-S300A

KO | HV-S300D | HV-S300F

HV-S300C

WS-H0501

STEAM FROM BOILERS

HV-S302A | HV-S302B

NaOH RAIL CAR

CONTAINMENT

CSW – 100

OPEN CLOSE: YD S310 A / YB S310 A — DO DO

OPEN CLOSE: YD S320 A / YB S320 A — DO DO

OPEN CLOSE: YD S330 A / YB S330 A — DO DO

OPEN CLOSE: YD S340 A / YB S340 A — DO DO

CLOSED OPEN: ZB S310 A / ZD S310 A — DI DI

CLOSED OPEN: ZB S320 A / ZD S320 A — DI DI

CLOSED OPEN: ZB S330 A / ZD S330 A — DI DI

CLOSED OPEN: ZB S340 A / ZD S340 A — DI DI

ZSB ZSD: ZS S310 B / ZS S310 A

ZSB ZSD: ZS S320 B / ZS S320 A

ZSB ZSD: ZS S330 B / ZS S330 A

ZSB ZSD: ZS S340 B / ZS S340 A

M

HV-S310A | CS – 75 | FV-S310A — WS-P0009 TO TK-S310A

HV-S320A | CS – 75 | FV-S320A — WS-P0009 TO TK-S320A

HV-S330A | CS – 75 | FV-S330A — WS-P0010 TO TK-S330A

HV-S340A | CS – 75 | FV-S340A — WS-P0010 TO TK-S340A

LCP-S307A

WS-P0006

WS-P0005

LI S310 C | LI S320 C | LI S330 C | LI S340 C

LA S310 B — TANK HIGH LEVEL — DO

LA S320 B — TANK HIGH LEVEL — DO

LA S330 B — TANK HIGH LEVEL — DO

LA S340 B — TANK HIGH LEVEL — DO

H: LA S310A | LA S320A | LA S330A | LA S340A

ZD S310 B — INLET VALVE OPEN — DO

ZD S320 B — INLET VALVE OPEN — DO

ZD S330 B — INLET VALVE OPEN — DO

ZD S340 B — INLET VALVE OPEN — DO

OPEN: ZD S310D | ZD S320D | ZD S330D | ZD S340D

TK-S310A | TK-S320A | TK-S330A | TK-S340A

HS S307 B | HS S307 C | HS S307 D | HS S307 E — TANK SELECTOR SWITCH

START AIR PURGE: HS S300 F — TK-S310A

START FILL: HS S307 A — TK-S330A

PURGE COMPLETE: XM S307A — TK-S340A

HS S307 A — START FILL — DI

HS S307 B — SELECT TK-S110A TO FILL — DI

HS S307 C — SELECT TK-S120A TO FILL — DI

HS S307 D — SELECT TK-S130A TO FILL — DI

HS S307 E — SELECT TK-S140A TO FILL — DI

HS S307 F — START AIR PURGE — DI

XM S307 A — PURGE COMPLETE — DO

OPEN FILL VALVE: YD S307 A — DO

PI S307 A

AIR FROM COMPRESSORS

CA – 25

HV-S307A | PCV-S307A | PRV-S307A

HV-S307E

CA – 20

S | SOL-S307A | CV-S307A

KO | HV-S307D | HV-S307F

HV-S307C

TO LDS

CLOSED OPEN: ZD S309 A / ZB S309 A — DI DI

CPU OPEN CLOSE: YS S309 A / YB S309 A / YB S309 A — DI DI DO DO

OPEN CLOSE: ZSD S309 C / ZSB S309 D

COH CLOSE OPEN: HS S309 F / HS S309 E / HS S309 D

MANHOLE HIGH LEVEL: LA S309 A — DI

CV-S307B | CV-S307C

HV-S307B | HV-S307G

HV-S308A

HV-S308B

HV-S308C

HV-S308D

CONTAINMENT

LS S309 A

CSW – 200

M | FV-S309A

MANHOLE

CV-S311A — NOTE 1 — NORTH SUMP

OPEN CLOSE: YD S310 B / YB S310 B — DO DO

OPEN CLOSE: YD S320 B / YB S320 B — DO DO

OPEN CLOSE: YD S330 B / YB S330 B — DO DO

OPEN CLOSE: YD S340 B / YB S340 B — DO DO

CLOSED OPEN: ZB S310 B / ZD S310 B — DI DI

CLOSED OPEN: ZB S320 B / ZD S320 B — DI DI

CLOSED OPEN: ZB S330 B / ZD S330 B — DI DI

CLOSED OPEN: ZB S340 B / ZD S340 B — DI DI

ZSB ZSD: ZS S310 D / ZS S310 C

ZSB ZSD: ZS S320 D / ZS S320 C

ZSB ZSD: ZS S330 D / ZS S330 C

ZSB ZSD: ZS S340 D / ZS S340 C

M

HV-S310B | CS – 50 | FV-S310B — WS-P0009 TO TK-S310A

HV-S320B | CS – 50 | FV-S320B — WS-P0009 TO TK-S320A

CS – 50

HV-S330B | CS – 50 | FV-S330B — WS-P0010 TO TK-S330A

HV-S340B | CS – 50 | FV-S340B — WS-P0010 TO TK-S340A

TO LDS

EMERGENCY SHOWER OPERATING: FA S751 A — DI — FS S751 A — WS-H0501 TEMPERED WATER

EEWS-S751A — EMERGENCY SHOWER/ EYEWASH STATION RAILCAR

EMERGENCY SHOWER OPERATING: FA S759 A — DI — FS S759 A — WS-H0501 TEMPERED WATER

EEWS-S759A — EMERGENCY SHOWER/ EYEWASH STATION TRUCK FILL

NOTES

1. TIDEFLEX DUCKBILL CHECK VALVE.

APEGM
Certificate of Authorization
Earth Tech Canada Inc.
No. 730 Expiry: April 30, 2007

NO.	REVISIONS	DATE	BY
	B.M. ELEV.		
00	ISSUED FOR TENDER	07/01/31	JBC

CH2MHILL / Frederickson Cooper ARCHITECTS — EarthTech, A Tyco International Ltd. Company

DESIGNED BY	SBW	CHECKED BY	NT
DRAWN BY	JBC	APPROVED BY	AHL
SCALE:	NONE	RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
DATE	2005/09/25	DATE	2007/01/31

ENGINEER'S SEAL
ORIGINAL SIGNED BY
S.B. WILLIAMSON
2007/01/31

CONSULTANT DRAWING NO.
WS-P0008

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT
BULK CHEMICAL STORAGE
SODIUM HYPOCHLORITE AND CHEMICAL STORAGE BUILDING

PROCESS
SODIUM HYDROXIDE OFFLOADING AND STORAGE
PROCESS & INSTRUMENTATION DIAGRAM

CITY FILE NUMBER
SHEET OF
CITY DRAWING NUMBER
1-0601S-G-P0008-001-00D

Last Save: 2007-02-02 8:44 AM

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