ConocoPhillips

Wood River Refinery
P. O. Box 76
900 South Central Avenue
Roxana, Illinois 62084

April 6, 2009

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David Bloomberg
Acting Manager – Compliance and Enforcement
Bureau of Air
Illinois Environmental Protection Agency
P. O. Box 19276
Springfield, IL 62794-9276

SUBJECT: NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS BENZENE IN WASTE OPERATIONS - 40 CFR 61, SUBPART FF; WOOD RIVER REFINERY; ANNUAL UPDATED BENZENE QUANTITY FOR 2008

Dear Mr. Bloomberg:

Pursuant to the regulations in 40 CFR 61.357(d)(2) and 61.357(d)(5), and in compliance with the Clean Air Act Section 112(l) delegation of authority granted by direct final rule on November 22, 1995 (60 FR 57834-57836), ConocoPhillips Wood River Refinery is hereby submitting the TABQ report for the yearly control period from January 1, 2008, through December 31, 2008.

The calculated TABQ for this reporting period is 160.8 Mg. The amount of benzene in waste streams which is not being controlled ("BQ6") is calculated to be 5.0 Mg in accordance with the provisions of 40 CFR 61.342(e).

If you have any questions regarding this report, please contact J. D. Rankin at (618) 255-2737.

Sincerely,

David W. Dunn

David Dunn
Director, Environmental

Enclosure

Wood River Refinery
Benzene Waste NESHAPS

BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
OTH	NP BENZENE BARGE MANIFOLD		Y	1	13.7	1,000,000.0	1,000,000.0	1,000,000	4143.0	1879.2	N	
OTH	CH-210 AND V-1622 HC/WATER - UNCONTROLLED		Y	1	11,202.0	0.0	1000.0	395.0	1548.1	702.2	N	
DU4	DU-4 PROCESS SEWER SUMP (INCL. TRYLINES)		Y	1	427,224.0	0.2	3131.0	4.4	657.0	298.0	N	
BEU	SRC COL. WATER BOOT		Y	1	750.0	1450.0	3200.0	1894.0	497.7	225.8	N	
ENV	HES SDF: CENTRIFUGE SOLIDS IN B146 THEN TO COKER		Y	6	46,452.0	1.0	20.4	13.0	229.0	103.9	N	
OTH	MISC RELEASES TO GROUND/UNCONT PROCESS SEWER		Y	7	101.8	0.0	1000000.0	6066.0	198.0	89.8	N	
OTH	JAN 26 BENZENE SPILL		Y	7	0.7	1000000.0	1000000.0	1000000.0	196.0	88.9	N	
WASTE	NP EXCAVATION MATERIAL OFFSITED		Y	6	539,711	0	13.3	0.5	190.0	86.2	N	
CR1/3	CR1 OILY WATER SEPARATOR-FROM REGEN SYSTEM	V4117	Y	1	66,126.0	0.0	41.6	7.3	171.0	77.6	N	
LOGS	TANK FARM SAMPLE PURGES-CRUDE & FINISHED PRODUCT		N	3	163.5	5.0	60000.0	3200.0	155.8	70.7	N	
OTH	NP BIOTREATER EFFLUENT (POST-TREATMENT)		Y	7	51,859,000.0	0.0	0.3	0.0	143.5	65.1	N	
WASTE	PRIMARY (SITE 9)SOLIDS TO OFFSITE INCINERATION		Y	6	1,203.0	0.0	255.0	255.0	124.0	56.2	N	
OTH	CR-2 HEAVY REFORMATE TO PROCESS SEWER		N	7	20.0	20,000.0	20,000.0	20,000.0	119.1	54.0	N	
LOGS	SAMPLES TO PIPELINE SUMP FROM MOTOR LAB/PPL AREA (UNCONT)		N	3	31.9	1450.0	6140.0	2783.4	115.5	52.4	N	
SPTCAUS	SULFIDIC SPENT CAUSTIC THROUGHPUT IN E-20 (SRC4/CCC4 TREATERS)		Y	1	31,200.0	0.0	10.0	10.0	109.3	49.6	N	
CC2025	IN TRENCH S. OF TCR PUMP		N	1	20.0	1000.0	30000.0	15000.0	89.3	40.5	N	
DW	DW WELLS #1/2 GROUNDWATER MAKEUP		Y	1	7,258,286.0	0.0	0.3	0.0	83.0	37.6	N	
DW	COKER CHARGE PUMPS		Y	1	150,171.4	0	1.4	1.4	73.7	33.4	N	
CR3001	CR3/HDU2 SURGE DRUM & CHARGE PUMP SAMPLE PURGES	V1524/P69023	N	3	13.0	15200.0	23300.0	18492.0	71.6	32.5	N	
LOT045	VESSEL DRAIN, WEST PRECIPITATOR	V1514	N	1	18.0	5000.0	15000.0	12000.0	64.3	29.2	N	
LOT043	LEVEL BRIDAL DRAIN, EAST EXTRACTOR	V1535	N	1	12.4	10000.0	20000.0	17000.0	62.7	28.4	N	
LOT036	LEVEL GAGE BRIDLE , EAST SETTLER	V361	N	1	12.4	10000.0	20000.0	17000.0	62.7	28.4	N	
DU2282	OVERHEAD EXCHG-NORTH STRUCTURE, T4310/11	T4310/11	Y	4	10.0	10000.0	20000.0	15900.0	55.7	25.3	N	
DW	LPA PUMPS		Y	1	12,514.3	0	11.6	11.6	50.9	23.1	N	
SPTCAUS	SULFIDIC SPENT CAUSTIC TO TANK D-9		Y	1	12,829.7	0.0	10.0	10.0	45.0	20.4	N	
SPTCAUS	SULFIDIC SPENT CAUSTIC TO TANK D-10		Y	1	12,829.7	0.0	10.0	10.0	45.0	20.4	N	
CC2010	S.W. OF V2142	V2142	N	1	10.0	1000.0	30000.0	15000.0	44.7	20.3	N	
LOT044	LEVEL GAGE DRAIN, WEST EXTRACTOR	V1536	N	1	12.4	5000.0	15000.0	12000.0	44.2	20.1	N	
LOT033	LEVEL BRIDAL DRAIN, WEST SETTLER	V1537	N	1	12.4	5000.0	15000.0	12000.0	44.2	20.1	N	
LOT027	INSULATOR CHAMBER DRAIN, WEST WASHER	V1544	N	4	11.9	5000.0	15000.0	12000.0	42.5	19.3	N	
HCU009	WATER DRAW (V4174 FRAC. OVERHEAD ACCUM)	V4174	Y	4	1,143.0	0.0	150.0	100.0	40.0	18.2	N	
LAB	AQUEOUS OR NON-BENZENE SAMPLES TO SEWER		Y	3	484.0	0.0	220.0	220.0	37.3	16.9	N	
BEU053	C-7 TOPS PUMP		N	4	0.1	900000.0	1000000.0	990000.0	35.4	16.0	N	
BEU052	C-7 TOPS PUMP		N	4	0.1	900000.0	1000000.0	990000.0	35.4	16.0	N	
BEU050	SRC TOPS PUMP		N	4	0.1	900000.0	1000000.0	990000.0	35.4	16.0	N	
BEU049	SRC TOPS PUMP		N	4	0.1	900000.0	1000000.0	990000.0	35.4	16.0	N	
BEU030	C-7 TOPS		N	4	0.1	900000.0	1000000.0	990000.0	35.4	16.0	N	
BEU018	PSC SRC TOPS PUMP		N	4	0.1	20000.0	1000000.0	990000.0	35.4	16.0	N	
BEU017	PSC TOPS-SRC TOPS PUMP		N	4	0.1	20000.0	1000000.0	990000.0	35.4	16.0	N	
DU2236	T4271/74 DEISO OVERHEAD CONDENSERS	T4271/74	Y	4	20.0	2000.0	10000.0	5000.0	35.0	15.9	N	
DU2178	T4317 XHGO/TRI-MC,T4308/09 QUENCH	T4306/09	Y	4	40.0	1000.0	5000.0	2100.0	29.4	13.3	N	
OTH	SITE 9 RECEIPTS - OTHER WATERS (SEASONAL TANKS, HI TOC MISC)		Y	7	7,440.0	0.0	20.0	10.0	26.1	11.8	N	
CR1003	N. OF PUMP P7406 (SAMPLE POINT)	SAMPLE	N	3	17.4	1000.0	10000.0	5000.0	25.9	11.7	N	
DW	HGO PUMPS		Y	1	6,257.1	0	11.6	11.6	25.4	11.5	N	
RAU	STRAIGHT RUN C4 RAFFINATE SETTLER BRIDLE	V933	N	1	12.5	0.0	6507.0	6507.0	24.3	11.0	N	
RAU	FLUSH SRC4 FAT SETTLER BRIDLE	V1423	N	1	12.5	0.0	6507.0	6507.0	24.3	11.0	N	
WASTE	TANK 55-1 CLEANING - PRODUCT		Y	4	3,500.0	18.8	18.8	18.8	23.1	10.5	N	
SGP041	S. OF P40005 DEBUT REBOIL	P40005	N	4	1.8	20000.0	60000.0	42000.0	22.3	10.1	N	
CC2011	N. OF P55093	P55093	N	1	5.0	1000.0	30000.0	15000.0	22.3	10.1	N	
CC1007	W OF P 55146	P 55146	N	1	5.0	1000.0	30000.0	15000.0	22.3	10.1	N	
DU1	STRAIGHT RUN LGO SAMPLE STATION		N	3	2.2	0.0	33027.0	33027.0	21.4	9.7	N	
CR1001	CR-1/HCU LAB (STAB. BTMS. SAMPLE)	SAMPLE	N	3	5.0	1000.0	30000.0	14200.0	21.1	9.6	N	
DU2	DU2 MIXED CRUDE TRYLINES		Y	3	59.0	5.5	2660.0	1182.7	20.8	9.4	N	
DU1140	DU-1 2ND STGE DESALTER TRILINE SAMPLE STATION DRAIN	V3228	N	3	59.0	1.5	3100.0	1130.8	19.9	9.0	N	
OTH	WWTP ENHANCED BIOTREATMENT EFFLUENT (POST-TREATMENT)		Y	7	55,793,000.0	0.0	0.0	0.0	19.5	8.9	N	

Wood River Refinery
Benzene Waste NESHAPS

BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
ASPALL	MARINE LINE PIT	PIT	Y	1	1,000.0	0.0	53.0	53.0	18.6	8.4	N	
CR2011	BOTTOMS COOLER (SAMPLE POINT)	T2858/59	N	3	1.9	10000.0	100000.0	32500.0	18.4	8.4	N	
DU4	DU-4 CRUDE SAMPLE STATION		N	3	12.4	4500.0	4500.0	4500.0	16.6	7.5	N	
LOT002	SAMPLE LAB SINK DRAIN	LAB	N	3	4.4	5000.0	15000.0	12000.0	15.6	7.1	N	
CR1028	E. OF C7404 REG COMP SEAL OIL TRAPS	C7404	N	1	168.0	0.0	1000.0	300.0	15.0	6.8	N	
BEU040	T-2 TOPS PUMP		N	4	0.1	200000.0	500000.0	420000.0	15.0	6.8	N	
RAU	FLUSH DEGASSING DRUM BRIDLE	V969	N	1	12.5	0.0	3744.0	3744.0	14.0	6.3	N	
RAU	FLUSH CCC4 RAFFINATE SETTLER BRIDLE	V983	N	1	12.5	0.0	3744.0	3744.0	14.0	6.3	N	
RAU	FLUSH CCC4 FAT SETTLER BRIDLE	V1041	N	1	12.5	0.0	3744.0	3744.0	14.0	6.3	N	
CC1022	DRAIN FOR TRENCH S. OF LT GAS OIL PMPS	P55147&5535	N	1	90.0	100.0	1000.0	500.0	13.4	6.1	N	
CC2027	OUTSIDE S. PUMP RM WALL S. OF LGO PUMPS		N	3	90.0	100.0	1000.0	500.0	13.4	6.1	N	
OTH	SITE 9 RECEIPTS - HEAT EXCHANGER BUNDLE WATERS		Y	7	24,000.0	0.0	31.0	1.5	12.6	5.7	N	
SGP	DEPROP TOPS COALESCER		Y	1	3,446.0	0.0	20.0	10.0	12.1	5.5	N	
LOT043	INSULATOR CHAMBER DRAIN, EAST EXTRACTOR	V1535	N	4	2.4	10000.0	20000.0	17000.0	12.1	5.5	N	
WASTE	ULD CATALYSTS OFFSITED		N	6	786.6	37.2	37.2	37.2	11.8	5.4	N	
LOT002	SAMPLE LAB SINK DRAIN	LAB	N	3	2.2	10000.0	20000.0	17000.0	11.1	5.0	N	
CR1055	S. OF P7412 STAB REBOIL (BASE & CASE)	P7412	N	4	2.4	1000.0	30000.0	14200.0	10.1	4.6	N	
HDU-2	HDU-1 MAY TURNAROUND		N	5	1	32100.0	32100.0	32100.0	9.6	4.3	N	
BEU003	T-1 BOTTOMS PUMPS		N	4	0.1	200000.0	350000.0	250000.0	8.9	4.1	N	
DU107	E3293/94 EXCHANGER DRAIN	T3280/81	Y	4	5.0	2000.0	10000.0	5000.0	8.8	4.0	N	
LOGS	TANK FARM SAMPLE PURGES-CC FEED		N	3	2,920.0	0.0	40.0	10.0	8.7	3.9	N	
LOT045	GASOLINE INLET LINE BLEEDER, WEST PRECIPITATOR	V1514	N	1	2.4	5000.0	15000.0	12000.0	8.5	3.9	N	
LOT045	PCV 326 MANIFOLD BLEEDER, WEST PRECIPITATOR	V1514	N	1	2.4	5000.0	15000.0	12000.0	8.5	3.9	N	
LOT053	TUBULARS OUTLET LINE BLEEDERS	T371/74	N	4	2.4	5000.0	15000.0	12000.0	8.5	3.9	N	
DU2100	END OF MDO LATERAL IN FURN PR-PC 74	PC74	N	4	7.1	2000.0	10000.0	4000.0	8.5	3.9	N	
DU107	E-3229/30/31/32 EXCHANGER DRAIN	T3282/85	Y	4	10.0	1000.0	5000.0	2350.0	8.2	3.7	N	
CR1	FUEL GAS KO POT	V4119	Y	1	2,190.0	0.0	100.0	10.0	7.7	3.5	N	
TRU	GP SR WTR STRIP BTMS (HUB#37)		Y	1	3,147,289	0.0	5.0	0.0	7.6	3.5	N	
TRU006	PUMP UTIL DRAIN	P81113	N	1	1.5	10000.0	20000.0	17000.0	7.6	3.4	N	
CR1001	CR-1/HCU LAB (CR-1 FEED SAMPLE)	SAMPLE	N	3	5.0	2000.0	10000.0	5000.0	7.4	3.4	N	
LSG-1	CNS ICN SIDEDRAW PUMP 89125	PUMP	N	4	0.5	20000.0	60000.0	50000.0	7.4	3.4	N	
SGP040	S. OF P40012 DEBUT REBOIL	P40012	N	4	0.6	20000.0	60000.0	42000.0	7.4	3.4	N	
DU2309	T4322/23 LC/LC RESIDUE	T4322/23	Y	4	10.0	1000.0	5000.0	2100.0	7.4	3.3	N	
DU2202	T4189/90 MC/MC HGO REFLUX	T4189/90	Y	4	10.0	1000.0	5000.0	2100.0	7.4	3.3	N	
DU2200	T4185/86 MC/MC HGO REFLUX	T4185/86	Y	4	10.0	1000.0	5000.0	2100.0	7.4	3.3	N	
DU2192	T4240/41 MC/HVY FLASH DIST	T4240/41	Y	4	10.0	1000.0	5000.0	2100.0	7.4	3.3	N	
HCU035	W. OF C4010 2ND STAGE HYDROGEN RECYCLE	C4010	N	1	90.0	0.0	700.0	263.7	7.1	3.2	N	
HCU034	N.W. OF C4006, 1ST STAGE HYDROGEN RECYC	C4006	N	1	90.0	0.0	700.0	263.7	7.1	3.2	N	
HCU025	S.W. CORNER C4004 SEAL OIL TRAPS	C4004	N	1	90.0	0.0	700.0	263.7	7.1	3.2	N	
WASTE	SHIPMENTS FROM TRANSPORTATION FOR SITE 9 DISPOSAL		Y	2	1,439.0	14.0	14.0	14.0	7.0	3.2	N	
HD1006	CHARGE PUMP & LUBE OIL PUMP	P6979/P6995	N	3	0.7	10000.0	60000.0	34857.0	6.9	3.1	N	
OTH	BYPASSES OF NP BIOTREATER		Y	7	2,936.0	6.5	6.5	6.5	6.7	3.0	N	
PPL033	STRAINER - LIGHT REF.		N	4	0.1	102800.0	205600.0	205600.0	6.4	2.9	N	
WASTE	MISC NON-HAZ WASTES OFFSITED		Y	6	6,328.0	2.4	2.4	2.4	6.3	2.9	N	
WASTE	TANK A-144 CLEANING - PRODUCT/CUTTER STOCK		N	4	4,350.0	4.8	4.8	4.8	6.2	2.8	N	
BEU043	T-1 FEED PUMP		N	4	0.1	100000.0	250000.0	170000.0	6.1	2.8	N	
BEU042	T-1 FEED PUMP		N	4	0.1	100000.0	250000.0	170000.0	6.1	2.8	N	
LOT030	INSULATOR CHAMBER DRAIN, EAST WASHER	V1545	N	1	1.2	10000.0	20000.0	17000.0	6.0	2.7	N	
BEU077	MDO PUMP		N	4	0.0	0.0	1000000.0	1000000.0	6.0	2.7	N	
BEU076	MDO VESSEL LIQUID		N	4	0.0	0.0	1000000.0	1000000.0	6.0	2.7	N	
WASTE	TANK A-142 CLEANING - PRODUCT/CUTTER STOCK		N	4	4,190.0	4.7	4.7	4.7	5.9	2.7	N	
DU2115	MC FEED FROM FURNACE	P39040	N	4	4.6	2000.0	10000.0	4000.0	5.5	2.5	N	
DU2113	MC FEED FROM FURNACE	P39039	N	4	4.6	2000.0	10000.0	4000.0	5.5	2.5	N	
DU2292	P3934 U.C. TOPS/REFLUX	P3934	N	4	0.6	20000.0	40000.0	29800.0	5.3	2.4	N	
LOGS	RV'S TO A-32 SUMP		N	1	2.1	8200.0	10800.0	9500.0	5.2	2.4	N	

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LOGS	MISC VAC TRUCK HOSE DRIPPAGE TO F-21 SUMP		Y	7	78.0	0.3	859.0	224.0	5.2	2.4	N	
DU2291	P3933 U.C. TOPS/REFLUX (SPARE)	P3933	N	4	0.6	20000.0	40000.0	27800.0	4.9	2.2	N	
DU2290	P3932 UPPER COL TOPS/REFLUX	P3932	N	4	0.6	20000.0	40000.0	27800.0	4.9	2.2	N	
DHT019	CLAY FILTERS (BTM) SAMPLE POINT	SAMPLE	N	3	35.7	100.0	1000.0	450.0	4.8	2.2	N	
CC2029	N.W. OF F12 SOUR WATER DRAW MANIF		N	1	1.0	1000.0	30000.0	15000.0	4.5	2.0	N	
BEU039	T-1 TOPS PUMP		N	4	0.1	20000.0	250000.0	120000.0	4.3	1.9	N	
BEU038	T-TOPS PUMP		N	4	0.1	20000.0	250000.0	120000.0	4.3	1.9	N	
BEU005	T-1 TOPS PUMP		N	4	0.1	20000.0	250000.0	120000.0	4.3	1.9	N	
BEU004	T-1 TOPS PUMP		N	4	0.1	20000.0	250000.0	120000.0	4.3	1.9	N	
LOT033	HI POINT VENT ON GASOLINE SUCTION LINE, WEST SETTLER	V1537	N	1	1.2	5000.0	15000.0	12000.0	4.3	1.9	N	
HCU022	LEAN OIL (FRACT. TOPS) P4000	P4000	N	4	0.5	5000.0	60000.0	30000.0	4.3	1.9	N	
DU2106	T4152/54 LC RES/LUBE CRUDE EXCHG (INCL 4155/56/57)	T4152-55	Y	4	20.0	500.0	2000.0	600.0	4.2	1.9	N	
DU1151	PUMP CASE DRAIN	P36109	Y	4	2.0	2000.0	10000.0	6000.0	4.2	1.9	N	
DU2189	T4178 MC/KERO	T4178	Y	4	5.0	1000.0	5000.0	2350.0	4.1	1.9	N	
DU2188	T4177 MC/KERO	T4177/78	Y	4	5.0	1000.0	5000.0	2350.0	4.1	1.9	N	
DU1138	DU-1 1ST STGE DESALTER TRILINE SAMPLE STATION DRAIN	V3229	N	3	6.0	2.3	2960.0	2253.3	4.0	1.8	N	
OTH	HC RECOVERED FROM PROCESS SEWER MHS/ BOXES		Y	4	61.0	0.0	1010.0	218.0	4.0	1.8	N	
ENV	HES SDF: BAY 4 SUMP	SUMP	Y	1	37,542.0	0.0	0.8	0	3.8	1.7	N	
LSG-1	HCNHT FEED SURGE DRUM V4700	V4700	Y	4	4.3	500.0	2500.0	2500.0	3.8	1.7	N	
LSG-1	CNS ICN/BTMS PUMP (SPARE) P89122	PUMPS	N	4	0.5	500.0	30000.0	25000.0	3.7	1.7	N	
DU2185	T4312/13 LCR-MC,T4304 LC/HVY NAP	T4312/13	Y	4	5.0	1000.0	5000.0	2100.0	3.7	1.7	N	
DU2175	T4231 MC/FL BTMS EXCHG	T4231	Y	4	5.0	1000.0	5000.0	2100.0	3.7	1.7	N	
DU2174	T4230 MC/FL BTMS EXCHG	T4230	Y	4	5.0	1000.0	5000.0	2100.0	3.7	1.7	N	
DU2	HEAVY NAPTHA SAMPLE STATION		N	3	2.2	0.0	5429.0	5429.0	3.5	1.6	N	
DU1	HEAVY NAPHTHA SAMPLE STATION		N	3	2.2	0.0	5429.0	5429.0	3.5	1.6	N	
CC2054	N. DRAIN BELOW V2214 (MDO VESSEL)	V2214	Y	1	20.0	100.0	1000.0	500.0	3.5	1.6	N	
DU2258	T4302/03 LC/LCLCR	T4302/03	Y	4	10.0	500.0	2000.0	1000.0	3.5	1.6	N	
DU1153	PUMP CASE DRAIN	P3621	Y	4	2.0	2000.0	10000.0	4600.0	3.2	1.5	N	
DU1152	PUMP CASE DRAIN	P3620	Y	4	2.0	2000.0	10000.0	4600.0	3.2	1.5	N	
LSG-1	HCNHT FEED SAMPLE STATION		N	3	4.3	0.0	2500.0	2500.0	3.2	1.5	N	
LSG-1	HCNHT STAB BOTTOMS SAMPLE STATION		N	3	4.3	0.0	2500.0	2500.0	3.2	1.5	N	
HCU012	MAIN FRACT REFLUX, P40083 BASE/CASE	P40083	N	4	0.4	5000.0	60000.0	30000.0	3.2	1.4	N	
STU013	GLC BUILDING DRAIN 7TH ST	ANALYZER	N	4	0.6	10000.0	20000.0	17000.0	3.1	1.4	N	
ASPALL	ASPHALT SLOP SYSTEM	UNIT PLOT	Y	3	1,200.0	0.0	50.0	7.4	3.1	1.4	N	
LOT030	LVL GG BRD DRAIN, EAST WASHER	V1545	N	1	0.6	10000.0	20000.0	17000.0	3.0	1.4	N	
DW	COKER UNIFINER STRIPPER BOTTOMS	STRIPPER	N	5	1.0	3,940.0	3,940.0	3,940.0	3.0	1.4	N	
CC2030	IN N. END OF TRENCH, W. OF SLURRY PUMPS		N	1	20.0	100.0	1000.0	500.0	3.0	1.4	N	
CC2034	S. END OF TRENCH W. OF SLURRY PUMPS		N	3	20.0	100.0	1000.0	500.0	3.0	1.4	N	
CC1035	S. END OF SLURRY PUMP TRENCH	P55088	N	3	20.0	100.0	1000.0	500.0	3.0	1.4	N	
CC1025	OUTSIDE S. WALL OF PUMP ROOM	PUMP ROOM	N	3	20.0	100.0	1000.0	500.0	3.0	1.4	N	
CGP	SR WTR SAM PT,P-81110 (HUB#12)		Y	3	103.9	50.0	100.0	77.4	2.8	1.3	N	
HCU010	FRACTIONATOR OVERHEAD LIQUID TOPS SAMPLE	SAMPLE	N	3	0.3	5000.0	60000.0	30000.0	2.8	1.3	N	
DW	LGO PUMPS		Y	1	37,542.9	0	0.2	0.2	2.6	1.2	N	
CR1054	S. OF P7411 STAB REBOIL (BASE & CASE)	P7411	N	4	0.6	1000.0	30000.0	14200.0	2.5	1.1	N	
LOT037	DISCHARGE LINE BLEEDER	P88043	N	1	0.5	10000.0	20000.0	17000.0	2.4	1.1	N	
LOT037	SUCTION LINE DRAIN NEAR PUMP	P88043	N	1	0.5	10000.0	20000.0	17000.0	2.4	1.1	N	
LOT035	DISCHARGE LINE BLEEDER	P88049	N	1	0.5	10000.0	20000.0	17000.0	2.4	1.1	N	
LOT035	SUCTION LINE BLEEDER	P88049	N	1	0.5	10000.0	20000.0	17000.0	2.4	1.1	N	
KHT008	FLARE DRAINS		N	1	4.0	10.0	3000.0	2000.0	2.4	1.1	N	
HD2017	REFORMER MANIFOLD W. SIDE		N	3	0.5	1000.0	30000.0	14700.0	2.2	1.0	N	
OTH	NP WELL WATER TO SITE 9		Y	4	1,140.0	5.5	5.5	5.5	2.2	1.0	N	
LOT031	P88088 SUCTION LINE DRAIN	P88047	N	1	0.6	5000.0	15000.0	12000.0	2.1	1.0	N	
LOT027	LEVEL BRIDLE V1544 W.WASHER DRAIN FUNNEL, WEST WASHER	V1544	N	1	0.6	5000.0	15000.0	12000.0	2.1	1.0	N	
HCU010	FRACT OVERHD LIQ TOPS P40081 BASE/CASE	P40081	N	4	0.2	5000.0	60000.0	30000.0	2.1	1.0	N	
DU2109	T4165/66 LC RES/LUBE CRUDE EXCHG	T4165/66	Y	4	10.0	500.0	2000.0	600.0	2.1	1.0	N	

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BENZENE NESHAP WASTE STREAM REGULATORY STATUS
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UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
DU2	STRAIGHT RUN GASOLINE SAMPLE STATION		N	3	0.3	0.0	22027.0	22027.0	2.0	0.9	N	
ENV	SRU SOUR WATER STRIPPER BOTTMS		Y	1	855,309	0.0	1.0	0.0	1.9	0.9	N	
DU2322	P-3949	P3949	N	4	0.1	20000.0	80000.0	50000.0	1.8	0.8	N	
LOT059	BASIN PUMP	P88064	N	1	0.5	5000.0	15000.0	12000.0	1.7	0.8	N	
LOT058	DISCHARGE LINE BLEEDER	P88026	N	1	0.5	5000.0	15000.0	12000.0	1.7	0.8	N	
LOT057	DISCHARGE LINE BLEEDER	P88025	N	1	0.5	5000.0	15000.0	12000.0	1.7	0.8	N	
LOT034	DISCHARGE LINE BLEEDER	P88048	N	1	0.5	5000.0	15000.0	12000.0	1.7	0.8	N	
LOT031	DISCHARGE LINE BLEEDER (SAMPLE)	P88047	N	1	0.5	5000.0	15000.0	12000.0	1.7	0.8	N	
LOT034	SUCTION LINE BLEEDER	P88048	N	4	0.5	5000.0	15000.0	12000.0	1.7	0.8	N	
DU2284	P39054 4TH STAGE SEPARATOR	P39054	N	4	0.2	20000.0	40000.0	29800.0	1.7	0.8	N	
DU2283	P39053 4TH STAGE SEPARATOR	P39053	N	4	0.2	20000.0	40000.0	29800.0	1.7	0.8	N	
DU2	V-3981 COMPRES DRY-OUT DRUM	V3981	Y	1	217.3	10.0	60.0	21.4	1.6	0.7	N	
S-ZORB	S-ZORB JAN TURNAROUND		N	5	0.1	0.0	45000.0	45000.0	1.6	0.7	N	
RAU	DEPROP BOTTOMS SAMPLE POINT		N	3	0.3	0.0	17000.0	17000.0	1.6	0.7	N	
DHT	P-6803 KERO/FO BEARING WTR		Y	1	500.0	5.0	50.0	8.9	1.6	0.7	N	
TKDRAW	JET A TK DRAW TO SITE 9		Y	2	8,880.0	0.0	10.0	0.5	1.6	0.7	N	
CC1024	DRAIN FOR S. END OF E. TRENCH	PUMP ROOM	N	3	9.0	100.0	1000.0	580.0	1.6	0.7	N	
HDU2	HDU2 JAN TURNAROUND		N	5	1	0.0	5000.0	5000.0	1.5	0.7	N	
CR2	CR2 SEPT SHUTDOWN		N	5	1.0	0.0	5000.0	5000.0	1.5	0.7	N	
SGP054	S. OF P40014 RA COL LEAN OIL	P40014	N	4	0.1	20000.0	60000.0	42000.0	1.5	0.7	N	
BEU055	C-6 BOTTOMS PUMP		N	4	0.1	1000.0	80000.0	40000.0	1.4	0.6	N	
BEU054	C-6 BOTTOMS PUMP		N	4	0.1	1000.0	80000.0	40000.0	1.4	0.6	N	
BEU032	C-6 BOTTOMS		N	4	0.1	1000.0	80000.0	40000.0	1.4	0.6	N	
BEU031	C-6 BOTTOMS		N	4	0.1	1000.0	80000.0	40000.0	1.4	0.6	N	
BEU032	C-6 BOTTOMS		N	4	0.12	1000	80000	40000	1.4	0.6	N	
BEU055	C-6 BOTTOMS PUMP		N	4	0.12	1000	80000	40000	1.4	0.6	N	
BEU031	C-6 BOTTOMS		N	4	0.12	1000	80000	40000	1.4	0.6	N	
BEU054	C-6 BOTTOMS PUMP		N	4	0.12	1000	80000	40000	1.4	0.6	N	
DU2297	P39050 DEISO BTMS	P39050	N	4	0.1	20000.0	80000.0	50000.0	1.4	0.6	N	
DU2128	P39050 DEISOHEX BTMS	P39050	N	4	0.1	20000.0	80000.0	50000.0	1.4	0.6	N	
DU2127	P39051 DEISOHEX BTMS PUMPS	P39051	N	4	0.1	20000.0	80000.0	50000.0	1.4	0.6	N	
DU2124	P3948 DEISOHEX REBOIL PUMP	P3948	N	4	0.1	20000.0	80000.0	50000.0	1.4	0.6	N	
WASTE	DHT CATALYSTS OFFSITED		N	6	1,118.3	3.1	3.1	3.1	1.4	0.6	N	
LOT031	SUCTION LINE BLEEDER	P88047	N	1	0.4	5000.0	15000.0	12000.0	1.3	0.6	N	
DU2245	P3959 DEISO TOPS/REFLUX	P3959	N	4	0.8	2000.0	10000.0	5000.0	1.2	0.6	N	
DU2244	P3958 DEISO TOPS/REFLUX SPARE	P3958	N	4	0.8	2000.0	10000.0	5000.0	1.2	0.6	N	
DU2243	P39114 DEISO TOPS PUMP	P39114	N	4	0.8	2000.0	10000.0	5000.0	1.2	0.6	N	
LOT043	DISTRIBUTOR DRAIN TRYLINE, EAST EXTRACTOR	V1535	N	1	0.2	10000.0	20000.0	17000.0	1.2	0.5	N	
HD1	HDU1 JULY SHUTDOWN		N	5	0.1	32100.0	32100.0	32100.0	1.1	0.5	N	
CR3	CR3 JULY SHUTDOWN		N	5	0.1	32100.0	32100.0	32100.0	1.1	0.5	N	
CR3	CR3 SEPT SHUTDOWN		N	5	0.1	32100.0	32100.0	32100.0	1.1	0.5	N	
HD1	HDU1 SEPT SHUTDOWN		N	5	0.1	32100.0	32100.0	32100.0	1.1	0.5	N	
SGP062	S. OF P40011 (SPARE) RA REBOIL/DEBUT FD	P40011	N	4	0.1	18000.0	50000.0	32000.0	1.1	0.5	N	
SGP061	S. OF P40004 DEBUT FEED	P40004	N	4	0.1	18000.0	50000.0	32000.0	1.1	0.5	N	
STU013	GLC BUILDING DRAIN 7TH ST	ANALYZER	N	4	0.6	5000.0	10000.0	6000.0	1.1	0.5	N	
WASTE	TANK A-94 CLEANING - SOLIDS OFFSITED		Y	4	71.4	38.2	38.2	38.2	1.1	0.5	N	
HCU011	MAIN FRAC. REFLUX, P40082 BASE/CASE	P40082	N	4	0.1	5000.0	60000.0	30000.0	1.1	0.5	N	
DU2133	P3925 HVY NAP REBOIL/KERO REB PUMP	P3925	N	4	0.6	2000.0	10000.0	6000.0	1.1	0.5	N	
DU2132	P3928 HVY NAP REBOIL PUMP	P3928	N	4	0.6	2000.0	10000.0	6000.0	1.1	0.5	N	
DU2292	P3934 U.C. TOPS/REFLUX SAMPLE	P3934	N	4	0.1	20000.0	40000.0	29800.0	1.1	0.5	N	
DU1074	PUMP BASE DRAIN	P3673	N	4	0.1	20000.0	40000.0	29800.0	1.1	0.5	N	
DU1072	PUMP BASE DRAIN	P3672	N	4	0.1	20000.0	40000.0	29800.0	1.1	0.5	N	
WASTE	TANK A-32 CLEANING - GAS OIL CUTTER STOCK USED		N	4	1,022.0	3.3	3.3	3.3	1.0	0.5	N	
DU2291	P3933 U.C. TOPS/REFLUX SAMPLE (SPARE)	P3933	N	4	0.1	20000.0	40000.0	27800.0	1.0	0.4	N	
DU2290	P3932 UPPER COL TOPS/REFLUX SAMPLE	P3932	N	4	0.1	20000.0	40000.0	27800.0	1.0	0.4	N	

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UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
DU1079	PUMP BASE DRAIN	P3622	N	4	0.1	20000.0	40000.0	27800.0	1.0	0.4	N	
SGP063	S. OF P40003	P40003	N	4	0.1	20000.0	60000.0	42000.0	1.0	0.4	N	
TKDRAW	DIESEL FEED TK DRAW TO SITE 9		Y	2	6,660.0	0.0	1.7	0.4	0.9	0.4	N	
CCU-2	SOUR WATER ACCUMULATOR		Y	1	8.7	0.0	300.0	300.0	0.9	0.4	N	
CCU-1	BLOW-OFF PIT		Y	1	365.0	5.0	60.0	7.1	0.9	0.4	N	
LOT046	LEVEL BRIDAL DRAIN, WEST PRECIPITATOR	V1514	N	1	0.2	5000.0	15000.0	12000.0	0.9	0.4	N	
LOT044	DISTRIBUTOR DRAIN TRYLINE, WEST EXTRACTOR	V1536	N	1	0.2	5000.0	15000.0	12000.0	0.9	0.4	N	
LOT038	MEROX DISCHARGE LINE TO MIXER DRAIN		N	1	0.2	5000.0	15000.0	12000.0	0.9	0.4	N	
LOT050	DISCHARGE LINE BLEEDER	P507	N	4	0.2	5000.0	15000.0	12000.0	0.9	0.4	N	
LOT044	INSULATOR CHAMBER DRAIN, WEST EXTRACTOR	V1536	N	4	0.2	5000.0	15000.0	12000.0	0.9	0.4	N	
CR1057	S. OF P7409 STAB FD (BASE & CASE)	P7409	N	4	0.1	2000.0	6000.0	23300.0	0.8	0.4	N	
DU2287	P3915 KERO REF-MDO TIE-IN FOR UC	P3915	N	4	0.6	2000.0	10000.0	4600.0	0.8	0.4	N	
DU2286	P3981 KERO REFLUX (SPARE)	P3981	N	4	0.6	2000.0	10000.0	4600.0	0.8	0.4	N	
DU2285	P3914 KERO REFLUX	P3914	N	4	0.6	2000.0	10000.0	4600.0	0.8	0.4	N	
CC2055	N.W. OF V1568 (FLARE KO POT)	V1568	N	4	5.0	100.0	1000.0	500.0	0.7	0.3	N	
SGP050	S. OF P40007 RA COL LEAN OIL	P40007	N	4	0.1	20000.0	60000.0	42000.0	0.7	0.3	N	
DU1	DU1 KEROSENE SAMPLE STATION		N	3	8.6	0.0	287.0	287.0	0.7	0.3	N	
BEUO69	RAFFINATE PUMP		N	4	0.2	1000.0	40000.0	10000.0	0.7	0.3	N	
BEU011	T-2 BOTTOMS PUMP		N	4	0.2	1000.0	50000.0	10000.0	0.7	0.3	N	
BEU023	C-6 BOTTOMS COLUMN		N	5	0.06	1000	80000	40000	0.7	0.3	N	
SGP031	S. OF P40073 NAP STRIPPER BTMS BOOSTER	P40073	N	4	2.4	0.0	5000.0	1000.0	0.7	0.3	N	
HCU014	UPPER CIRC. REFLUX P4016 BASE/CASE	P4016	N	4	4.8	0.0	4000.0	500.0	0.7	0.3	N	
DU2100	END OF MDO LATERAL IN FURN PR-PC 74	PC74	N	4	2.4	500.0	2000.0	1000.0	0.7	0.3	N	
DU1122	PUMP BASE DRAIN	P5717	N	4	0.6	2000.0	10000.0	4000.0	0.7	0.3	N	
CR1059	S. OF P7413 STAB REFLUX (BASE & CASE)	P7413	N	4	0.1	2000.0	40000.0	20000.0	0.7	0.3	N	
TKDRAW	UNTREATED KEROSENE TK DRAW TO SITE 9		Y	2	2,880.0	0.0	29.7	0.7	0.7	0.3	N	
PPL033	STRAINER - LIGHT CAT.		N	4	0.1	10280.0	36000.0	20560.0	0.6	0.3	N	
BEU	BEU FEB SHUTDOWN		Y	5	1,000.0	1.8	1.8	1.8	0.6	0.3	N	
DW	JET PUMP LUBE OIL FILTER		Y	1	25,028.6	0	0.07	0.07	0.6	0.3	N	
STU028	GLC VENT LINE DRAIN	ANALYZER	N	3	0.0	30000.0	50000.0	42000.0	0.6	0.3	N	
DW	COKER UNIFINER STRIPPER BOTTOMS	EXCHGRS	N	4	0.5	3940.0	3940.0	3940.0	0.6	0.3	N	
DU2105	SWS REB/LGO REF-SUCT STRNR P3936/37	P3936/37	N	4	9.5	50.0	400.0	200.0	0.6	0.3	N	
DU2105	SWS REB/LGO REF-SUCT STRNR P3936/37	P3936/37	N	4	9.5	50.0	400.0	200.0	0.6	0.3	N	
DU4	DU-4 ATMOSPHERIC OH PRODUCT	PUMP	N	4	0.5	3710.0	3710.0	3710.0	0.6	0.3	N	
CC2032	BETWEEN HGO PUMPS		Y	4	5.0	100.0	500.0	300.0	0.5	0.2	N	
CC1033	E. OF CC1 STRUCTURE		Y	4	0.1	1500.0	30000.0	15000.0	0.5	0.2	N	
CCU-2	SOUR WATER SAMPLE STATION		Y	3	5.0	100.0	500.0	300.0	0.5	0.2	N	
DW	COKER CUTTING/QUENCH WATER		Y	1	297,339.4	0	0	0	0.5	0.2	N	
RAU043	MANIFOLD UTIL DRAIN	CV181AMANIF	N	4	0.1	5000.0	15000.0	12000.0	0.5	0.2	N	
DU2	LIGHT NAPTHA DIH BOTTOMS SAMPLE STATION		N	3	0.3	0.0	5429.0	5429.0	0.5	0.2	N	
WASTE	DEA FILTER ELEMENTS		Y	6	130.0	31.6	31.6	31.6	0.5	0.2	N	
PPL033	STRAINER - BENZENE RAF.		N	4	0.1	10280.0	36000.0	15420.0	0.5	0.2	N	
DU2279	P39038 MC SECONDARY BOOSTER	P39038	N	4	0.4	2000.0	10000.0	4000.0	0.5	0.2	N	
DU2278	P39037 MC SECONDARY BOOSTER	P39037	N	4	0.4	2000.0	10000.0	4000.0	0.5	0.2	N	
DU2219	P3974 MC BOOSTER	P3974	N	4	0.4	2000.0	10000.0	4000.0	0.5	0.2	N	
DU2218	P3975 MC BOOSTER	P3975	N	4	0.4	2000.0	10000.0	4000.0	0.5	0.2	N	
DU2217	P3990 MC SPARE	P3990	N	4	0.4	2000.0	10000.0	4000.0	0.5	0.2	N	
DU2216	P3989 MC CHARGE PUMP	P3989	N	4	0.4	2000.0	10000.0	4000.0	0.5	0.2	N	
DU2211	P-3988 MC CHARGE PUMP	P3988	N	4	0.4	2000.0	10000.0	4000.0	0.5	0.2	N	
CR1058	S. OF P7410 STAB REFLUX (BASE & CASE)	P7410	N	4	0.1	2000.0	40000.0	20000.0	0.5	0.2	N	
CCU-2	RINSE WATER		Y	1	150.0	0.0	25.0	8.8	0.5	0.2	N	
LSG-1	HCNHT SOUR WATER SAMPLE STATION		Y	3	4.3	0.0	300.0	300.0	0.5	0.2	N	
CC1023	DRAIN FOR TRENCH S. OF L.P.D. PUMPS	P5520&3405	N	3	0.1	1000.0	30000.0	15000.0	0.4	0.2	N	
DU2289	P3117 SRGO REFLUX	P3117	N	4	0.6	1000.0	5000.0	2500.0	0.4	0.2	N	
DU2288	P3916 SRGO REFLUX	P3916	N	4	0.6	1000.0	5000.0	2500.0	0.4	0.2	N	

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UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
CC1028	N.W. CORNER OF TRENCH AT N. SLURRY PUMP		Y	4	125.0	0.0	25.0	10.0	0.4	0.2	N	
RAU039	VESSEL UTIL DRAIN (DEPROP TOPS CONDENSER)	V3315	N	1	0.2	5000.0	15000.0	6000.0	0.4	0.2	N	
LOT054	SUCTION LINE BLEEDER	P88082	N	1	0.1	5000.0	15000.0	12000.0	0.4	0.2	N	
LOT058	SUCTION LINE	P88026	N	4	0.1	5000.0	15000.0	12000.0	0.4	0.2	N	
LOT057	SUCTION LINE	P88025	N	4	0.1	5000.0	15000.0	12000.0	0.4	0.2	N	
LOT031	CHECK VALVE BLEEDER	P88047	N	4	0.1	5000.0	15000.0	12000.0	0.4	0.2	N	
CC1009	N. END OF P55011	P55011	N	4	0.1	1000.0	50000.0	20000.0	0.4	0.2	N	
CC1008	S. END OF P55011	P55011	N	4	0.1	1000.0	50000.0	20000.0	0.4	0.2	N	
DU2284	P39054 4TH STAGE SEPARATOR	P39054	N	4	0.0	20000.0	40000.0	29800.0	0.4	0.2	N	
DU2283	P39053 4TH STAGE SEPARATOR	P39053	N	4	0.0	20000.0	40000.0	29800.0	0.4	0.2	N	
DU1	NESHAPS HEADER SAMPLE STATION		Y	3	52.2	0.0	26.4	26.4	0.4	0.2	N	
ASPALL	LGO USED IN TANK CAR RACK SUMP	RACK SUMP	N	1	365.0	0.0	3.3	3.3	0.4	0.2	N	
LSG-1	CNS BTMS PUMP P-89121	PUMPS	N	4	0.5	500.0	5000.0	2500.0	0.4	0.2	N	
LSG-1	HCNHT CHARGE PUMP P847	PUMP	N	4	0.5	500.0	5000.0	2500.0	0.4	0.2	N	
LSG-1	HCNHT STAB BTMS PUMPS P843,P822,P823	PUMPS	N	4	0.5	500.0	5000.0	2500.0	0.4	0.2	N	
BEU075	FAT SOLVENT PUMP		N	4	0.1	5000.0	250000.0	10000.0	0.4	0.2	N	
BEU041	T-2 BOTTOMS PUMP		N	4	0.1	1000.0	50000.0	10000.0	0.4	0.2	N	
HD2	HDU2 SEPT SHUTDOWN		N	5	0.2	5000.0	5000.0	5000.0	0.4	0.2	N	
DU2322	P-3949	P3949	N	4	0.0	20000.0	80000.0	50000.0	0.4	0.2	N	
DU2297	P39050 DEISO BTMS	P39050	N	4	0.0	20000.0	80000.0	50000.0	0.4	0.2	N	
DU2128	P39050 DEISOHEX BTMS	P39050	N	4	0.0	20000.0	80000.0	50000.0	0.4	0.2	N	
DU2127	P39051 DEISOHEX BTMS PUMPS	P39051	N	4	0.0	20000.0	80000.0	50000.0	0.4	0.2	N	
DU2124	P3948 DEISOHEX REBOIL PUMP	P3948	N	4	0.0	20000.0	80000.0	50000.0	0.4	0.2	N	
CR3016	STAB. FEED PUMP	P69016	N	4	0.0	10000.0	300000.0	200000.0	0.4	0.2	N	
CR3015	STAB. FEED PUMP (SPARE)	P69017	N	4	0.0	10000.0	300000.0	200000.0	0.4	0.2	N	
CR3012	STAB. REBOIL PUMP	P69206	N	4	0.0	10000.0	300000.0	200000.0	0.4	0.2	N	
CR3011	STAB. REBOIL PUMP	P69205	N	4	0.0	10000.0	300000.0	200000.0	0.4	0.2	N	
SGP030	S. OF P40074 NAP STRIPPER BTMS BOOSTER	P40074	N	4	1.2	0.0	5000.0	1000.0	0.4	0.2	N	
DU102	E3255/56 EXCHANGER DRAIN	T3255/56	Y	4	5.0	50.0	400.0	200.0	0.4	0.2	N	
SGP	WATER DRAWOFF FOR SAMPLE (V4255)		Y	3	35.0	0.0	50.0	28.1	0.3	0.2	N	
DOCOO1	3/4" BLEEDER FROM MOV	FL1/ARM1	N	1	0.2	2.0	51000.0	4800.0	0.3	0.2	N	
DOCO16	3/4" BLEEDER FROM MOV 30196	FL3/ARM4	N	1	0.2	2.0	51000.0	4800.0	0.3	0.2	N	
DOCO15	3/4" BLEEDER FROM MOV 30193	FL3/ARM3	N	1	0.2	2.0	51000.0	4800.0	0.3	0.2	N	
DOCO13	1/2" BLEEDER FROM MOV 30188	FL3/ARM1	N	1	0.2	2.0	51000.0	4800.0	0.3	0.2	N	
DU2130	P3930 HVY NAP PUMP	P3930	N	4	0.2	2000.0	10000.0	6000.0	0.3	0.2	N	
DU2129	P3931 HVY NAP PUMP (SPARE)	P3931	N	4	0.2	2000.0	10000.0	6000.0	0.3	0.2	N	
LOT	DRAIN NAOH CARRYOVER (HUB#29)		Y	1	20.0	40.0	50.0	47.5	0.3	0.2	N	
HD1	P-6979 DRAIN		Y	1	15.0	62.3	60000.0	62.3	0.3	0.1	N	
PPL033	STRAINER - HEAVY HYD. CR.		N	4	0.1	1028.0	36000.0	10280.0	0.3	0.1	N	
PPL033	STRAINER - LIGHT ALK.		N	4	0.1	1028.0	36000.0	10280.0	0.3	0.1	N	
CCU-2	SLURRY OIL SAMPLE STATION		N	3	2.1	0.0	500.0	500.0	0.3	0.1	N	
DW	COKER UNIFIER CHARGE	PUMPS/EXCH	N	4	0.5	2010.0	2010.0	2010.0	0.3	0.1	N	
TRU004	SOUR WATER FEED SURGE VESSEL UTIL DRAIN	V961	Y	1	0.0	10000.0	20000.0	17000.0	0.3	0.1	N	
VF1007	SAMPLE FUNNEL FLUSHING OIL	SAMPLE	N	3	4.8	50.0	400.0	200.0	0.3	0.1	N	
DU1142	PUMP BASE DRAIN	P3696	N	4	0.2	2000.0	10000.0	4000.0	0.3	0.1	N	
DU1141	PUMP BASE DRAIN	P3660	N	4	0.2	2000.0	10000.0	4000.0	0.3	0.1	N	
DU1094	PUMP BASE DRAIN	P3671	N	4	0.2	2000.0	10000.0	4000.0	0.3	0.1	N	
DU1009	PUMP BASE DRAIN	P3683	N	4	0.2	2000.0	10000.0	4000.0	0.3	0.1	N	
DU1008	PUMP BASE DRAIN	P3684	N	4	0.2	2000.0	10000.0	4000.0	0.3	0.1	N	
LOT	DRAIN NAOH CARRYOVER (HUB#28)		Y	1	20.0	35.0	45.0	39.6	0.3	0.1	N	
CGP	SR WATR SAM PT,L0013 (HUB#2)		Y	3	9.0	50.0	100.0	77.4	0.2	0.1	N	
CAU042	PUMP UTILITY DRAIN	P81030	N	4	0.0	10000.0	20000.0	17000.0	0.2	0.1	N	
CAU041	PUMP UTILITY DRAIN	P81029	N	4	0.0	10000.0	20000.0	17000.0	0.2	0.1	N	
CC1044	S. OF P55121	P55121	N	3	0.0	1000.0	30000.0	15000.0	0.2	0.1	N	
DU2133	P3925 HVY NAP REBOIL/KERO REB PUMP	P3925	N	4	0.1	2000.0	10000.0	6000.0	0.2	0.1	N	

Wood River Refinery
Benzene Waste NESHAPS

BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
DU2132	P3928 HVY NAP REBOIL PUMP	P3928	N	4	0.1	2000.0	10000.0	6000.0	0.2	0.1	N	
CC1045	S. END OF P55122	P55122	N	4	0.0	1000.0	50000.0	15000.0	0.2	0.1	N	
HCU	RECYCLE OIL SAMPLE STATION	SAMPLE	N	3	4.3	0.0	160.0	160.0	0.2	0.1	N	
WASTE	HEAT EXCHANGER BUNDLE SLUDGES OFFSITED		Y	6	221.0	2.4	2.4	2.4	0.2	0.1	N	
DHT008	CHARGE PUMP W. SIDE SAMPLE STATION (FEED)	P6803	N	3	1.0	100.0	1000.0	647.0	0.2	0.1	N	
STU	CHECK BLEEDER ON WATER DRAW LINE		Y	1	5.0	100.0	150.0	109.9	0.2	0.1	N	
CCU-2	FLARE PUMP P-55104 LIQUID		Y	1	20.0	10.0	75.0	26.7	0.2	0.1	N	
DU2	KERO SAMPLE STATION		N	3	2.2	0.0	287.0	287.0	0.2	0.1	N	
HD2	HDU2 JULY SHUTDOWN		N	5	0.1	5000.0	5000.0	5000.0	0.2	0.1	N	
CR1	CR1 JULY SHUTDOWN		N	5	0.1	5000.0	5000.0	5000.0	0.2	0.1	N	
CR1	CR1 SEPT SHUTDOWN		N	5	0.1	5000.0	5000.0	5000.0	0.2	0.1	N	
CR1	CR1 NOV SHUTDOWN		N	5	0.1	5000.0	5000.0	5000.0	0.2	0.1	N	
CR1	CR1 DEC SHUTDOWN		N	5	0.1	5000.0	5000.0	5000.0	0.2	0.1	N	
HCU096	NAPHTHA STRIPPER BTMS, P40080 BASE/CASE	P40080	N	4	0.6	0.0	5000.0	1000.0	0.2	0.1	N	
HCU095	NAPHTHA STRIPPER BTMS, P40079 BASE/CASE	P40079	N	4	0.6	0.0	5000.0	1000.0	0.2	0.1	N	
HCU013	UPPER CIRC REFLUX, P4015 BASE/CASE	P4015	N	4	1.2	0.0	4000.0	500.0	0.2	0.1	N	
DU2307	P39060 LC CHARGE	P39060	N	4	0.6	500.0	2000.0	1000.0	0.2	0.1	N	
DU2306	P3976 LC BOOSTER	P3976	N	4	0.6	500.0	2000.0	1000.0	0.2	0.1	N	
DU2305	P3993 LC BOOSTER	P3993	N	4	0.6	500.0	2000.0	1000.0	0.2	0.1	N	
DU2304	P39059 LC CHARGE	P39059	N	4	0.6	500.0	2000.0	1000.0	0.2	0.1	N	
DU2245	P3959 DEISO TOPS/REFLUX	P3959	N	4	0.1	2000.0	10000.0	5000.0	0.2	0.1	N	
DU2244	P3958 DEISO TOPS/REFLUX SPARE	P3958	N	4	0.1	2000.0	10000.0	5000.0	0.2	0.1	N	
DU2243	P39114 DEISO TOPS PUMP	P39114	N	4	0.1	2000.0	10000.0	5000.0	0.2	0.1	N	
VF1042	EXCHANGER T2440 FLOAT-OVER	T2440	Y	4	2.5	50.0	400.0	200.0	0.2	0.1	N	
LOT059	DISCHARGE LINE BLEEDER	P88064	N	1	0.0	5000.0	15000.0	12000.0	0.2	0.1	N	
DU2287	P3915 KERO REF-MDO TIE-IN FOR UC	P3915	N	4	0.1	2000.0	10000.0	4600.0	0.2	0.1	N	
DU2286	P3981 KERO REFLUX (SPARE)	P3981	N	4	0.1	2000.0	10000.0	4600.0	0.2	0.1	N	
DU2285	P3914 KERO REFLUX	P3914	N	4	0.1	2000.0	10000.0	4600.0	0.2	0.1	N	
DHT	LOW PRESS FLARE DRAIN		Y	1	52.2	5.0	50.0	8.9	0.2	0.1	N	
SZU	C-69001 V-5583/V-5585 MDO header drain		N	1	5.0	0.0	1,000.0	100.0	0.1	0.1	N	
SZU	C-69001 V-5581 MDO header drain		N	1	5.0	0.0	1,000.0	100.0	0.1	0.1	N	
LSG-1	CNS CONDENSERS	COND	N	4	0.5	500.0	1000.0	1000.0	0.1	0.1	N	
CC2020	IN TRENCH N.E. OF P55148	P55148	N	4	1.0	100.0	1000.0	500.0	0.1	0.1	N	
CC1029	N.E. CORNER OF TRENCH AT SLURRY PUMPS		N	4	1.0	100.0	1000.0	500.0	0.1	0.1	N	
DW	COKER UNSTABILIZED NAPTHA	EXCHGRS	N	4	0.5	962.0	962.0	962.0	0.1	0.1	N	
DU1066	OVERFLOW FOR WEIGHT STATION	WT STA	N	1	0.1	2000.0	10000.0	4000.0	0.1	0.1	N	
DU2168	V3981 DRY DRUM	V3981	N	4	1.0	200.0	700.0	500.0	0.1	0.1	N	
DU2115	NEAR P39040 MC	P39040	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.1	N	
DU2113	NEAR P39039 MC FEED FURNACE	P39039	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.1	N	
DU2100	END OF MDO LATERAL IN FURN PR-PC 74	PC74	N	4	2.4	50.0	400.0	200.0	0.1	0.1	N	
DU2	STRAIGHT RUN LGO SAMPLE STATION		N	3	2.2	0.0	200.0	200.0	0.1	0.1	N	
VF1025	DRAIN FOR VACUUM PUMP P4481 AND WASHOUT	P4481	Y	4	0.2	1000.0	3000.0	1500.0	0.1	0.1	N	
VF1023	DRAIN FOR VACUUM PUMP P4482	P4482	Y	4	0.2	1000.0	3000.0	1500.0	0.1	0.1	N	
HD1	ACCUMULATOR,SOUR H20 DRAW, HUB#10		Y	1	1.2	100.0	1000.0	300.0	0.1	0.1	N	
DU2139	P3926 KERO PUMP	P3926	N	4	0.6	500.0	2000.0	700.0	0.1	0.1	N	
DU2137	P3927 KERO TRANSFER PUMP	P3927	N	4	0.6	500.0	2000.0	700.0	0.1	0.1	N	
DU2134	P3924 KERO REBOIL PUMP	P3924	N	4	0.6	500.0	2000.0	700.0	0.1	0.1	N	
VF1071	VF1 BTMS SAMPLE POINT		N	3	2.0	50.0	400.0	200.0	0.1	0.1	N	
BEU051	C-6 TOPS PUMP		N	4	0.0	1000.0	40000.0	20000.0	0.1	0.1	N	
BEU022	C-6 TOPS		N	4	0.0	1000.0	40000.0	20000.0	0.1	0.1	N	
BEU022	C-6 TOPS		N	4	0.02	1000	40000	20000	0.1	0.1	N	
BEU051	C-6 TOPS PUMP		N	4	0.02	1000	40000	20000	0.1	0.1	N	
CR1003	N. OF PUMP P7406 (BASE & CASE DRAIN)	P7406	N	4	0.1	2000.0	60000.0	5000.0	0.1	0.1	N	
TKDRAW	DIESEL TK DRAW TO SITE 9		Y	2	1,080.0	0.0	5.0	0.3	0.1	0.1	N	
HCU094	HVY NAP STRIPPER REBOIL, P4020 BASE/CASE	P4020	N	4	0.4	0.0	5000.0	1000.0	0.1	0.0	N	

Wood River Refinery
Benzene Waste NESHAPS

BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
HCU092	HVY NAP STRIPPER REBOIL, P4019 BASE/CASE	P4019	N	4	0.4	0.0	5000.0	1000.0	0.1	0.0	N	
CC2049	S. OF P8803 (SOUR WATER)	P8803	Y	4	1.0	100.0	500.0	300.0	0.1	0.0	N	
CC2047	W. OF P5590 (SOUR WATER PUMP)	P5590	Y	4	1.0	100.0	500.0	300.0	0.1	0.0	N	
CC2033	E. SIDE OF STRUCTURE (LOW PRESS DIST)		Y	4	1.0	100.0	500.0	300.0	0.1	0.0	N	
HCU067	1ST STAGE FEED (SAMPLE)	SAMPLE	N	3	2.2	0.0	500.0	160.0	0.1	0.0	N	
CCU-2	MDO VESSEL WATER		Y	1	150.0	0.0	5.0	1.9	0.1	0.0	N	
PPL026	LOCAL BLENDER BOOSTER	LOCAL BLENI	N	4	0.0	9000.0	36000.0	15422.0	0.1	0.0	N	
HD2010	FLARE DRAIN LINE E. SIDE OF COMP BLDG		N	1	2.1	10.0	500.0	150.0	0.1	0.0	N	
HD1007	VENT GAS COMPRESSOR	C6968	N	1	2.1	10.0	500.0	150.0	0.1	0.0	N	
WASTE	TANK A-94 CLEANING - CARBONYL		Y	4	2.6	100.0	100.0	100	0.1	0.0	N	
DU2289	P3117 SRGO REFLUX	P3117	N	4	0.1	1000.0	5000.0	2500.0	0.1	0.0	N	
DU2288	P3916 SRGO REFLUX	P3916	N	4	0.1	1000.0	5000.0	2500.0	0.1	0.0	N	
DU1014	PUMP BASE DRAIN	P3686	N	4	0.1	1000.0	5000.0	2500.0	0.1	0.0	N	
DU1013	PUMP BASE DRAIN	P3685	N	4	0.1	1000.0	5000.0	2500.0	0.1	0.0	N	
CC2056	S.W. OF P55104 (FLARE KO POT)	V2146	Y	1	5.0	48.7	30000.0	48.7	0.1	0.0	N	
LOT059	SUCTION LINE	P88064	N	1	0.0	5000.0	15000.0	12000.0	0.1	0.0	N	
DU2279	P39038 MC SECONDARY BOOSTER	P39038	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.0	N	
DU2278	P39037 MC SECONDARY BOOSTER	P39037	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.0	N	
DU2219	P3974 MC BOOSTER	P3974	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.0	N	
DU2218	P3975 MC BOOSTER	P3975	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.0	N	
DU2217	P3990 MC SPARE	P3990	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.0	N	
DU2216	P3989 MC CHARGE PUMP	P3989	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.0	N	
DU2211	P-3988 MC CHARGE PUMP	P3988	N	4	0.1	2000.0	10000.0	4000.0	0.1	0.0	N	
DU2130	P3930 HVY NAP PUMP	P3930	N	4	0.0	2000.0	10000.0	6000.0	0.1	0.0	N	
DU2129	P3931 HVY NAP PUMP (SPARE)	P3931	N	4	0.0	2000.0	10000.0	6000.0	0.1	0.0	N	
TKDRAW	FCC CHGE/GAS OILS/WATER TK DRAW TO SITE 9		Y	2	1,560.0	0.0	5.0	0.1	0.1	0.0	N	
DW	DEPENT OH WATER BOOT DRAIN		Y	1	8.7	0	24.5	24.5	0.1	0.0	N	
DW	FUEL GAS KO DRUM		Y	1	43.4	0	4.9	4.9	0.1	0.0	N	
ULD	CHARGE PUMP	P04005	N	4	0.5	0.0	500.0	500.0	0.1	0.0	N	
HCU085	DEBUT REBOIL (PRV RUPTURE DISC DRAIN)	PRV	N	1	0.0	5000.0	60000.0	42000.0	0.1	0.0	N	
DW	SETTLER TRYLINES		Y	1	8.7	0	24	24	0.1	0.0	N	
STU025	PUMP UTILITY DRAIN	P7010	N	1	0.0	5000.0	15000.0	10000.0	0.1	0.0	N	
VF1049	DRAIN - PUMP STRAINER	P4476	N	4	1.2	50.0	400.0	200.0	0.1	0.0	N	
VF1045	DRAIN - PUMP STRAINER	P4475	N	4	1.2	50.0	400.0	200.0	0.1	0.0	N	
DU2312	V.G.C. INTERSEPATOR V3983	V3983	N	4	0.5	200.0	700.0	500.0	0.1	0.0	N	
DU2165	V3984 AFTER SEPARATOR-VGC	V3984	N	4	0.5	200.0	700.0	500.0	0.1	0.0	N	
DU1089	PUMP BASE DRAIN	P3602	N	4	0.2	500.0	2000.0	1000.0	0.1	0.0	N	
DU1087	PUMP BASE DRAIN	P3636	N	4	0.2	500.0	2000.0	1000.0	0.1	0.0	N	
DU1083	PUMP BASE DRAIN	P3603	N	4	0.2	500.0	2000.0	1000.0	0.1	0.0	N	
CC1007	W. OF P55146	P55146	N	4	0.0	500.0	20000.0	10000.0	0.1	0.0	N	
SGP	DEBUT TOPS COALESCER		Y	1	20.0	0.0	20.0	10.0	0.1	0.0	N	
CCU-2	FEED SAMPLE STATION		N	3	2.1	0.0	109.4	109.4	0.1	0.0	N	
CCU-1	FEED SAMPLE STATION		N	3	2.13	0.0	109.4	109.4	0.1	0.0	N	
WASTE	TANK A-94 CLEANING - WATER TO SITE 9		Y	4	1,218.0	0.2	0.2	0.2	0.1	0.0	N	
DU2142	P3918 UC BTMS PUMP	P3918	N	4	0.2	500.0	2000.0	1200.0	0.1	0.0	N	
DU2141	P3919 UC BTMS PUMP	P3919	N	4	0.2	500.0	2000.0	1200.0	0.1	0.0	N	
DU2269	P3937 FLASHER BTMS	P3937	N	4	1.1	50.0	400.0	200.0	0.1	0.0	N	
DU2268	P3936 FLASHER BTMS	P3936	N	4	1.1	50.0	400.0	200.0	0.1	0.0	N	
HD2	ACCUMULATOR EX. LC-210		Y	1	10.0	10.0	50.0	17.8	0.1	0.0	N	
CR3	LO + HI PRESS FLARE DRAINS		Y	1	5.0	0.0	100.0	35.6	0.1	0.0	N	
CR3	PRODUCT ACCUMULATOR WATER		Y	1	5.0	0.0	100.0	35.6	0.1	0.0	N	
CR3	PRODUCT SEPARATOR WATER		Y	1	5.0	0.0	100.0	35.6	0.1	0.0	N	
STU013	GLC BUILDING DRAIN 7TH ST	ANALYZER	N	1	0.0	10000.0	20000.0	17000.0	0.1	0.0	N	0.087612009
HD2	FLARE DRAINS		Y	1	17.0	10.0	50.0	10.0	0.1	0.0	N	
CC2018	IN TRENCH S. OF FEED PUMPS		N	3	20.0	0.0	25.0	10.0	0.1	0.0	N	

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UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
CC1017	EAST END OF NORTH TRENCH	P55047&5521	N	3	20.0	0.0	25.0	10.0	0.1	0.0	N	
WASTE	TANK A-32 CLEANING - WATER TO SITE 12		Y	4	546.0	0.3	0.3	0.3	0.1	0.0	N	
CR2005	CHG PUMP CASE DRAIN P6971	P6971	N	4	0.0	1000.0	30000.0	8000.0	0.1	0.0	N	
CR2005	LUBE OIL & CHG PMP, SURF COND SEAL POT	P6994	N	4	0.0	1000.0	30000.0	8000.0	0.1	0.0	N	
DU2162	P39057 LC SECONDARY BOOSTER PUMP	P39057	N	4	0.2	500.0	2000.0	1000.0	0.1	0.0	N	
DU2161	P39058 LC SECONDARY BOOSTER PUMP	P39058	N	4	0.2	500.0	2000.0	1000.0	0.1	0.0	N	
RAU	SOUR WATER SAMPLE POINT		Y	3	2.0	50.0	100.0	77.4	0.1	0.0	N	
HCU089	FRACTIONATOR TOPS (V4171 RUP DISC DRAIN)	PRV	N	1	0.0	5000.0	60000.0	30000.0	0.1	0.0	N	
HCU001	R6518 RUPTURE DISC DRAIN	PRV6513	N	1	0.0	5000.0	60000.0	30000.0	0.1	0.0	N	
CR3028	FLARE DRAINS		N	1	1.2	10.0	500.0	150.0	0.1	0.0	N	
VF1028	PUMP DRAIN FOR SR OIL PUMP	P4456	N	4	0.1	500.0	2000.0	1500.0	0.1	0.0	N	
VF1027	PUMP DRAIN FOR SR OIL PUMP	P4455	N	4	0.1	500.0	2000.0	1500.0	0.1	0.0	N	
LSG-1	HCNHT MDO WATER PUMP P826	PUMP	Y	4	0.5	100.0	1000.0	300.0	0.1	0.0	N	
CCU-1	COMBINED FEED SAMPLE STATION		N	3	17.39	0.0	9.9	9.9	0.1	0.0	N	
CCU-1	LGO SAMPLE STATION		N	3	8.6	0.0	19.4	19.4	0.0	0.0	N	
DU2152	P3911 MC RES/MC HGO SPARE PUMP	P3911	N	4	0.8	50.0	400.0	200.0	0.0	0.0	N	
DW	SOUR WATER SKIMMER		N	1	8.7	0	18.3	18.3	0.0	0.0	N	
LSG-1	HCNHT MDO HC PUMP P846	PUMP	N	4	0.5	100.0	1000.0	300.0	0.0	0.0	N	
VF1007	SAMPLE FUNNEL #6 OIL	SAMPLE	N	3	1.2	50.0	400.0	125.0	0.0	0.0	N	
STU018	UTILITY COLLECTION POINT	P-8190	N	1	0.0	5000.0	10000.0	6000.0	0.0	0.0	N	
DU2263	P39011 VAC FL ACCUM LIGHT OIL	P39011	N	4	0.1	50.0	2000.0	1500.0	0.0	0.0	N	
DU2262	P39022 VAC FL ACCUM LIGHT OIL	P39022	N	4	0.1	50.0	2000.0	1500.0	0.0	0.0	N	
DU1016	PUMP BASE DRAIN	P3688	N	4	0.1	500.0	2000.0	1200.0	0.0	0.0	N	
DU1015	PUMP BASE DRAIN	P3687	N	4	0.1	500.0	2000.0	1200.0	0.0	0.0	N	
LOT	DIS LINE BLEEDER FOR SAMPLE (HUB#42		Y	3	2.4	40.0	50.0	47.5	0.0	0.0	N	
HCU	SAMPLE (V4174, HUB #10)		Y	3	2.5	0.0	150.0	44.5	0.0	0.0	N	
DW	LP FLASH DRUM WATER BOOT DRAIN		Y	1	4.4	0	24.5	24.5	0.0	0.0	N	
DW	STRIPPER OH WATER BOOT DRAIN		Y	1	4.4	0	24.5	24.5	0.0	0.0	N	
CCU-1	SLURRY OIL SAMPLE STATION		N	3	4.3	0.0	28.9	28.9	0.0	0.0	N	
DU2310	P3912 MC HGO	P3912	N	4	0.6	50.0	400.0	200.0	0.0	0.0	N	
DU2307	P39060 LC CHARGE	P39060	N	4	0.1	500.0	2000.0	1000.0	0.0	0.0	N	
DU2306	P3976 LC BOOSTER	P3976	N	4	0.1	500.0	2000.0	1000.0	0.0	0.0	N	
DU2305	P3993 LC BOOSTER	P3993	N	4	0.1	500.0	2000.0	1000.0	0.0	0.0	N	
DU2304	P39059 LC CHARGE	P39059	N	4	0.1	500.0	2000.0	1000.0	0.0	0.0	N	
DU2281	P39035 MC LCR	P39035	N	4	0.6	50.0	400.0	200.0	0.0	0.0	N	
DU2280	P39034 MC LCR	P39034	N	4	0.6	50.0	400.0	200.0	0.0	0.0	N	
DU2277	P39044 PITCH BOOSTERS	P39044	N	4	0.6	50.0	400.0	200.0	0.0	0.0	N	
DU2276	P39043 PITCH BOOSTER	P39043	N	4	0.6	50.0	400.0	200.0	0.0	0.0	N	
DU2149	P3910 MC RESIDUE PUMP	P3910	N	4	0.6	50.0	400.0	200.0	0.0	0.0	N	
CR1	STABILIZER ACCUMULATER WATER	V4111	Y	1	10.0	0.0	500.0	10.0	0.0	0.0	N	
CR1060	BENEATH N. END OF STAB. TOPS ACCUM V4111	V4111	Y	4	10.0	0.0	1000.0	10.0	0.0	0.0	N	
LOT	DIS LINE BLEEDER FOR SAMPLE (HUB#41		Y	3	2.4	35.0	45.0	39.6	0.0	0.0	N	
ULD	C-4006 SEAL OIL	P04074	N	4	0.5	0.0	217.6	217.6	0.0	0.0	N	
ULD	C-4006 SEAL OIL	P04076	N	4	0.5	0.0	217.6	217.6	0.0	0.0	N	
DHT	V-1052 DRAIN		Y	1	10.0	5.0	50.0	8.9	0.0	0.0	N	
WASTE	PPE WASTE SHIPMENT		N	6	17.0	5.0	5.0	5.0	0.0	0.0	N	
HD2	VENT GAS COMPRESSOR DISTANCE PIECES	C69014	Y	1	17.4	0.0	4.9	4.9	0.0	0.0	N	
DOCOO1	1" DETONATION ARRESTER V-4043 DRAIN	FL1/ARM1	N	4	0.0	1000000.0	1000000.0	1000000.0	0.0	0.0	N	
DOCOO1	1" DRAIN FROM V-4042 STRAINER	FL1/ARM1	N	4	0.0	1000000.0	1000000.0	1000000.0	0.0	0.0	N	
DOCOO1	1" VAPOR LINE DRAIN	FL1/ARM1	N	4	0.0	1000000.0	1000000.0	1000000.0	0.0	0.0	N	
CC2057	IN PAD BETWEEN MDO COOLERS (MDO LIQUID)		Y	4	0.2	100.0	500.0	300.0	0.0	0.0	N	
CC2048	W. OF P8803 (SOUR WATER TO GAS PLANT)	P8803	Y	4	0.2	100.0	500.0	300.0	0.0	0.0	N	
DHT	P-6808 SOUR WATER DRAIN		Y	1	2.0	10.0	100.0	35.6	0.0	0.0	N	
CCU-1	W. OF F-12 (SOUR WAT. MANIFOLD)		Y	3	10.0	5.0	60.0	7.1	0.0	0.0	N	
CCU1/2	COMBINED LGO SAMPLE STATION		N	1	4.3	0.0	19.4	19.4	0.0	0.0	N	

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DU2139	P3926 KERO PUMP	P3926	N	4	0.1	500.0	2000.0	700.0	0.0	0.0	N	
DU2137	P3927 KERO TRANSFER PUMP	P3927	N	4	0.1	500.0	2000.0	700.0	0.0	0.0	N	
DU2134	P3924 KERO REBOIL PUMP	P3924	N	4	0.1	500.0	2000.0	700.0	0.0	0.0	N	
DU1082	PUMP BASE DRAIN	P3644	N	4	0.1	500.0	2000.0	700.0	0.0	0.0	N	
DU1029	PUMP BASE DRAIN	P3647	N	4	0.1	500.0	2000.0	700.0	0.0	0.0	N	
DU1028	PUMP BASE DRAIN	P3647	N	4	0.1	500.0	2000.0	700.0	0.0	0.0	N	
DU1026	PUMP BASE DRAIN	P3646	N	4	0.1	500.0	2000.0	700.0	0.0	0.0	N	
BEU068	WATER STILL TOPS PUMP	P90025	Y	4	0.0	0.0	2000.0	1450.0	0.0	0.0	N	
BEU067	WATER STILL TOP/BTM SPARE	P90024	Y	4	0.0	0.0	2000.0	1450.0	0.0	0.0	N	
BEU066	WATER STILL BTMS. PUMP	P90023	Y	4	0.0	0.0	2000.0	1450.0	0.0	0.0	N	
DU2273	P3940 XHFD	P3940	N	4	0.4	50.0	400.0	200.0	0.0	0.0	N	
DU2272	P3941 HFD/XHFD SPARE	P3941	N	4	0.4	50.0	400.0	200.0	0.0	0.0	N	
DU2271	P3942 HFO	P3942	N	4	0.4	50.0	400.0	200.0	0.0	0.0	N	
CR3016	STAB. FEED PUMP	P69016	N	4	0.0	1000.0	100000.0	32500.0	0.0	0.0	N	
CR3015	STAB. FEED PUMP (SPARE)	P69017	N	4	0.0	1000.0	100000.0	32500.0	0.0	0.0	N	
CR3012	STAB. REBOIL PUMP	P69206	N	4	0.0	1000.0	100000.0	32500.0	0.0	0.0	N	
CR3011	STAB. REBOIL PUMP	P69205	N	4	0.0	1000.0	100000.0	32500.0	0.0	0.0	N	
VF1	FUEL GAS KO POT		Y	1	12.4	0.0	4.9	4.9	0.0	0.0	N	
RAU042	VENT STACK & DRAIN FOR W. SIDE GLC BLD'G	GLC BLDG	N	3	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU033	PUMP UTIL DRAIN	P81014	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU033	PUMP UTIL DRAIN	P81014	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU009	PUMP UTILITY DRAIN - DEBUT REBOIL PUMP	P81023	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU006	PUMP UTILITY DRAIN - ABS REBOIL PUMP	P81024	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
CCU-2	V-1568 PUMP		N	1	0.6	0.0	109.4	109.4	0.0	0.0	N	
DU2	MC HGO SAMPLE STATION		N	3	0.3	0.0	200.0	200.0	0.0	0.0	N	
DU2	XHGO SAMPLE STATION		N	3	0.3	0.0	200.0	200.0	0.0	0.0	N	
CC2052	E. OF P55115	P55115	N	4	0.1	100.0	1000.0	500.0	0.0	0.0	N	
CC2051	E. OF P55114 (MDO PUMP)	P55114	N	4	0.1	100.0	1000.0	500.0	0.0	0.0	N	
CC1034	N. OF P55128	P55128	N	4	0.1	100.0	1000.0	500.0	0.0	0.0	N	
ULD	P-4005 SEAL FLUSH COOLER	B043XX	Y	4	0.1	0.0	500.0	500.0	0.0	0.0	N	
DU2142	P3918 UC BTMS PUMP	P3918	N	4	0.0	50.0	2000.0	1200.0	0.0	0.0	N	
DU2141	P3919 UC BTMS PUMP	P3919	N	4	0.0	50.0	2000.0	1200.0	0.0	0.0	N	
DU4	DU-4 #1 STRIPPER/KERO PUMPS	PUMP	N	4	0.5	113.0	113.0	113.0	0.0	0.0	N	
DU1159	PUMP CASE DRAIN	P3655/63	Y	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
CR3004	HYDROGEN COMPRESSOR	C69022	N	4	0.0	1000.0	100000.0	9000.0	0.0	0.0	N	
CCU-2	TOP REFLUX STANDBY PUMP SUC		Y	1	50.0	0.0	25.0	0.9	0.0	0.0	N	
DHT012	REFLUX & TOPS PUMP N. SIDE	P6807	N	4	0.5	0.0	200.0	100.0	0.0	0.0	N	
DU2162	P39057 LC SECONDARY BOOSTER PUMP	P39057	N	4	0.0	50.0	2000.0	1000.0	0.0	0.0	N	
DU2161	P39058 LC SECONDARY BOOSTER PUMP	P39058	N	4	0.0	50.0	2000.0	1000.0	0.0	0.0	N	
DU1035	PUMP BASE DRAIN	P3648	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU1033	PUMP BASE DRAIN	P8173	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU1018	PUMP BASE DRAIN	P3678	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
CC2009	SOUR WATER S.E. OF V2251	V2251	Y	4	0.1	100.0	500.0	300.0	0.0	0.0	N	
DU2275	P39089 TRAY 4-LFD	P39089	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2274	P39036 TRAY 4 LFD	P39036	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2267	P3938 VAC FL TRAY 1	P3938	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2266	P3939 VAC FL TRAY 1	P3939	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2164	P39031 LC LOWER CIRC REFLUX	P39031	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2163	P39032 LC LOWER CIRC REFLUX	P39032	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2160	P3904 LC HGO REFLUX PUMP	P3904	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2159	P3905 LC HGO REFLUX	P3905	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2158	P39017 LC HGO	P39017	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2157	P39018 LC HGO	P39018	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2154	P39019 LC RESIDUE	P39019	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	
DU2153	P39020 LC RESIDUE	P39020	N	4	0.2	50.0	400.0	200.0	0.0	0.0	N	

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DU2263	P39011 VAC FL ACCUM LIGHT OIL	P39011	N	4	0.0	500.0	2000.0	1500.0	0.0	0.0	N	
DU2262	P39022 VAC FL ACCUM LIGHT OIL	P39022	N	4	0.0	500.0	2000.0	1500.0	0.0	0.0	N	
DU2	SR ASPHALT SAMPLE STATION		N	3	2.2	0.0	16.0	16.0	0.0	0.0	N	
RAU006	PUMP UTILITY DRAIN - ABS REBOIL PUMP	P81024	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU006	PUMP UTILITY DRAIN - ABS REBOIL PUMP	P81024	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU005	PUMP UTILITY DRAIN - ABS REBOIL PUMP	P81025	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU005	PUMP UTILITY DRAIN - ABS REBOIL PUMP	P81025	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU004	PUMP UTILITY DRAIN - ABS REBOIL PUMP	P81026	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
RAU004	PUMP UTILITY DRAIN - ABS REBOIL PUMP	P81026	N	4	0.0	5000.0	15000.0	12000.0	0.0	0.0	N	
CCU-1	DIRTY FEED SAMPLE STATION		N	3	0.31	0.0	109.4	109.4	0.0	0.0	N	
CCU-1	SOUR WATER SAMPLE STATION		Y	3	4.0	5.0	60.0	7.1	0.0	0.0	N	
VF1033	BASE DRAIN & XHFD SAMPLE FUNNEL NEAR P4469	P4471/2	N	3	0.2	50.0	400.0	200.0	0.0	0.0	N	
VF1	LFD SAMPLE STATION		N	3	0.2	0.0	200.0	200.0	0.0	0.0	N	
VF1	XFD SAMPLE STATION		N	3	0.2	0.0	200.0	200.0	0.0	0.0	N	
STU	SOUR WATER PH SAMPLE LINE		Y	3	2.2	5.0	15.0	11.4	0.0	0.0	N	
CCU-2	LPD SAMPLE STATION		N	3	0.3	0.0	87.9	87.9	0.0	0.0	N	
CCU-1	LPD SAMPLE STATION		N	3	0.31	0.0	87.9	87.9	0.0	0.0	N	
DU2	LFD SAMPLE STATION		N	3	0.3	0.0	87.8	87.8	0.0	0.0	N	
DU4	DU-4 #3 STRIPPER HGO PUMPS	PUMP	N	4	0.5	52.6	52.6	52.6	0.0	0.0	N	
HCU	C-4011 COMPRESSOR DRAIN		Y	1	2.3	0.0	50.0	8.9	0.0	0.0	N	
HCU	C-4006 COMPRESSOR DRAIN		Y	1	2.3	0.0	50.0	8.9	0.0	0.0	N	
HCU	C-4010 COMPRESSOR DRAIN		Y	1	2.3	0.0	50.0	8.9	0.0	0.0	N	
VF1061	BASE DRAIN	P4408	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1059	BASE DRAIN	P4406	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1058	BASE DRAIN	P4467	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1057	BASE DRAIN	P4468	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1052	BASE DRAIN	P4478	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1050	BASE DRAIN	P4477	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1047	BASE DRAIN	P4476	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1046	BASE DRAIN	P4475	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2310	P3912 MC HGO	P3912	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2281	P39035 MC LCR	P39035	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2280	P39034 MC LCR	P39034	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2277	P39044 PITCH BOOSTERS	P39044	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2276	P39043 PITCH BOOSTER	P39043	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2269	P3937 FLASHER BTMS	P3937	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2268	P3936 FLASHER BTMS	P3936	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2152	P3911 MC RES/MC HGO SPARE PUMP	P3911	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2149	P3910 MC RESIDUE PUMP	P3910	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1059	PUMP BASE DRAIN	P3616	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1057	PUMP BASE DRAIN	P3617	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1050	PUMP CASE DRAIN	P36110	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1017	PUMP BASE DRAIN	P3679	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1016	PUMP BASE DRAIN	P3688	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1015	PUMP BASE DRAIN	P3687	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1014	PUMP BASE DRAIN	P3686	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1013	PUMP BASE DRAIN	P3685	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1011	PUMP BASE DRAIN	P3674	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU1010	PUMP BASE DRAIN	P3675	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
CC1049	S. END OF P55130	P55130	N	4	0.0	100.0	1000.0	500.0	0.0	0.0	N	
CC1048	S. END OF P55129	P55129	N	4	0.0	100.0	1000.0	500.0	0.0	0.0	N	
CC1047	S. END OF P55124	P55124	N	4	0.0	100.0	1000.0	500.0	0.0	0.0	N	
CC1046	S. END OF P55123	P55123	N	4	0.0	100.0	1000.0	500.0	0.0	0.0	N	
CC1026	OUTSIDE S. PUMP ROOM WALL	PUMP ROOM	N	4	0.0	100.0	1000.0	500.0	0.0	0.0	N	
DW	SEAL OIL TANK		Y	1	8.7	0	2.2	2.2	0.0	0.0	N	

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BENZENE NESHAP WASTE STREAM REGULATORY STATUS
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UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
DW	SEAL OIL FILTERS		Y	1	8.7	0	2.2	2.2	0.0	0.0	N	
HCU065	WATER DRAW FROM V4244	V4244	Y	4	1.9	0.0	50.0	10.0	0.0	0.0	N	
ULD	C-4006 INBOARD SEAL OIL TRAP	V04183	N	4	0.1	0.0	217.6	217.6	0.0	0.0	N	
ULD	C-4006 OUTBOARD SEAL OIL TRAP	V04184	N	4	0.1	0.0	217.6	217.6	0.0	0.0	N	
ULD	C-4006 SEAL OIL POT	V04212	N	4	0.1	0.0	217.6	217.6	0.0	0.0	N	
ULD	LUBE / SEAL OIL CLR Clr C-4006 (B)	B04538	N	4	0.1	0.0	217.6	217.6	0.0	0.0	N	
ULD	LUBE / SEAL OIL CLR C-4006	B04538	N	4	0.1	0.0	217.6	217.6	0.0	0.0	N	
CCU-2	P-55045 PUMP CASING DRAIN		Y	1	2.0	5.0	60.0	9.1	0.0	0.0	N	
STU	MDO LINE CHECK BLEEDER		Y	1	0.2	50.0	100.0	74.8	0.0	0.0	N	
CCU-2	COMBINED FEED SAMPLE STATION		N	3	2.1	0.0	9.9	9.9	0.0	0.0	N	
HCU	V-4169 LEVEL GAUGE FAILURE		Y	1	1.0	0.0	50.0	17.8	0.0	0.0	N	
DHT	P-6811 DRAINS		Y	1	1.0	5.0	50.0	17.8	0.0	0.0	N	
KHT	V-3548 SKIMMER SAMPLE STA	V3548	Y	3	1.0	10.0	50.0	17.8	0.0	0.0	N	
HCU	V-4169 SAMPLE		Y	3	1.0	0.0	150.0	17.8	0.0	0.0	N	
DU2208	P3923 SRGO	P3923	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2206	P3922 SRGO	P3922	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2148	P3906 MC HGO REFLUX	P3906	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2147	P3980 MC HGO REFLUX (SPARE)	P3980	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2146	P3907 MC HGO REFLUX PUMP	P3907	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2145	P39033 XHGO PUMP	P39033	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
CCU-2	TOP REFLUX PUMP		Y	1	17.4	0.0	0.9	0.9	0.0	0.0	N	
ULD	TB-4006 GLAND SEAL POT	V04188	N	4	0.1	0.0	145.7	145.7	0.0	0.0	N	
DHT	FUEL GAS KO POT	V3262	Y	1	2.5	0.0	4.9	4.9	0.0	0.0	N	
DU2273	P3940 XHFD	P3940	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2272	P3941 HFD/XHFD SPARE	P3941	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2271	P3942 HFO	P3942	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1037	BASE DRAIN	P4487	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1036	BASE DRAIN	P4474	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
VF1035	BASE DRAIN	P4473	N	4	0.1	50.0	400.0	200.0	0.0	0.0	N	
DU2	HFD SAMPLE STATION		N	3	0.1	0.0	200.0	200.0	0.0	0.0	N	
RAU	ACCUM H2O TRAP SAMPLE		Y	3	12.51	0.5	1.0	0.9	0.0	0.0	N	
CCU-2	F12 WATER SAMPLE STATION		Y	3	1.4	0.0	7.1	7.1	0.0	0.0	N	
DU4	DU-4 #2 STRIPPER SRLGO PUMPS	PUMP	N	4	0.5	22.0	22.0	22.0	0.0	0.0	N	
ALKY	FLARE KO POT	V-3783	Y	1	5.8	0.0	1.6	1.6	0.0	0.0	N	
CCU-2	TOP REFLUX STANDBY PUMP DIS		Y	1	10.0	0.0	25.0	0.9	0.0	0.0	N	
CC1042	BELOW S. END OF T2178	T2178	N	3	1.0	0.0	25.0	10.0	0.0	0.0	N	
DU2275	P39089 TRAY 4-LFD	P39089	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2274	P39036 TRAY 4 LFD	P39036	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2267	P3938 VAC FL TRAY 1	P3938	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2266	P3939 VAC FL TRAY 1	P3939	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2164	P39031 LC LOWER CIRC REFLUX	P39031	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2163	P39032 LC LOWER CIRC REFLUX	P39032	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2160	P3904 LC HGO REFLUX PUMP	P3904	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2159	P3905 LC HGO REFLUX	P3905	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2158	P39017 LC HGO	P39017	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2157	P39018 LC HGO	P39018	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2154	P39019 LC RESIDUE	P39019	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2153	P39020 LC RESIDUE	P39020	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
CCU-2	LO PRESS DISTILLATE SAMPLE STATION		N	3	1.0	0.0	9.1	9.1	0.0	0.0	N	
TRU	PUMP BASE DRAIN		Y	1	0.2	30.0	40.0	31.6	0.0	0.0	N	
DW	FLAME SEAL		Y	1	17.4	0	0.4	0.4	0.0	0.0	N	
CCU-1	CLEAN FEED SAMPLE STATION		N	3	0.07	0.0	109.4	109.4	0.0	0.0	N	
DW	COKER LCGO PUMPS	PUMP	N	4	0.5	15.4	15.4	15.4	0.0	0.0	N	
VF1030	PUMP DRAIN FOR SR WATER PUMP	P4449	Y	4	0.1	0.0	100.0	50.0	0.0	0.0	N	
VF1029	PUMP DRAIN FOR SR WATER PUMP	P4448	Y	4	0.1	0.0	100.0	50.0	0.0	0.0	N	

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CC2029	N.W. OF F12 SOUR WATER DRAW MANIF		Y	4	0.6	5.0	60.0	9.1	0.0	0.0	N	
HD2	OVERHEAD ACCUMULATOR WATER SAMPLE STATION		Y	3	0.3	0.0	17.8	17.8	0.0	0.0	N	
CCU-2	LGO SAMPLE STATION		N	3	0.3	0.0	19.4	19.4	0.0	0.0	N	
LSG-1	CNS CONDENSATE PUMP 89127	PUMP	Y	4	0.5	10.0	50.0	10.0	0.0	0.0	N	
LSG-1	CNS CONDENSATE PUMP 89129	PUMP	Y	4	0.5	10.0	50.0	10.0	0.0	0.0	N	
HCU060	2ND STAGE RECYCLE WATER (P4087)	P4087	Y	4	0.5	0.0	50.0	10.0	0.0	0.0	N	
LOT	SUCTION LINE BLEEDER (HUB#32)		Y	1	0.1	35.0	45.0	39.6	0.0	0.0	N	
LOT	DIS LINE SAMPLE & DRAIN BLDR(HUB#32)		Y	3	0.1	35.0	45.0	39.6	0.0	0.0	N	
DHT	P-6819 KERO/FO/VFD BTMS		Y	1	0.5	0.0	10.0	8.9	0.0	0.0	N	
DU1139	PUMP BASE DRAIN	P3681	Y	4	0.1	10.0	50.0	36.0	0.0	0.0	N	
DU1137	PUMP BASE DRAIN	P3682	Y	4	0.1	10.0	50.0	36.0	0.0	0.0	N	
STU	GAGE GLASS BLOWDOWN		Y	1	0.4	5.0	15.0	11.4	0.0	0.0	N	
DU2320	HUB LOCATED N. OF T4210 (ASSUM FLOW)	SEWER	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2311	MDO BLEEDER E. END OF BASIN (ASSUM FLOW)	BLEEDER	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2208	P3923 SRGO	P3923	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2206	P3922 SRGO	P3922	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2198	T4192 MC/MC HGO DEAD LEG (ASSUM FLOW)	T4192	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2197	T4191 MC/MC HGO DEAD LEG (ASSUM FLOW)	T4191	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2195	T4180/81 MC/MC HGO DEAD LEG (ASSUM FLOW)	T4180/81	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2176	T4234/35 FO HDR DEAD LEG (ASSUM FLOW)	T4234/35	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2174	T4230 F.O. HDR DEAD LEG (ASSUM FLOW)	T4230	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2148	P3906 MC HGO REFLUX	P3906	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2147	P3980 MC HGO REFLUX (SPARE)	P3980	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2146	P3907 MC HGO REFLUX PUMP	P3907	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2145	P39033 XHGO PUMP	P39033	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2107	T4152/54, F.O.HDR DEAD LEG (ASSUM FLOW)	T4152/54	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2106	T4152/54, F.O. DEAD HDR LEG (ASSUM FLOW)	T4152/54	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
CAU	GAGE GLASS BLOWDOWN		Y	1	0.1	20.0	30.0	22.6	0.0	0.0	N	
TRU	AW SOUR WATER TRY LINE		Y	3	0.1	10.0	20.0	19.3	0.0	0.0	N	
HCU043	1ST STAGE REACTOR EFF, T4458 PRV RUPTURE	PRV	N	1	0.0	50.0	1000.0	500.0	0.0	0.0	N	
NFL002	SEAL VESSEL PUMPS (AROMATICS NORTH FLARE)	P69093/94	N	4	0.0	100.0	1000.0	500.0	0.0	0.0	N	
TRU	CC/FLASHER SOUR WATER TRY LINE		Y	3	0.1	10.0	20.0	17.4	0.0	0.0	N	
HCU041	FIRST STAGE RECYCLE WATER	P4088	Y	4	0.2	0.0	50.0	10.0	0.0	0.0	N	
DHT011	FRACTIONATOR BOTTOMS (SP) N. SIDE	P6806	N	4	0.0	100.0	1000.0	450.0	0.0	0.0	N	
DHT010	FRACTIONATOR BOTTOMS N. SIDE	P6821	N	4	0.0	100.0	1000.0	450.0	0.0	0.0	N	
TRU	SR WTR SAMP, LAB SINK DRAIN		Y	1	2.2	0.0	1.0	0.9	0.0	0.0	N	
TRU	SOUR WATER TRY LINE MDO SAMPLE STATN		Y	3	0.2	5.0	10.0	7.9	0.0	0.0	N	
DW	COKER HCGO PUMPS	PUMP	N	4	0.5	4.1	4.1	4.1	0.0	0.0	N	
DHT011	FRACTIONATOR BOTTOMS (SP) N. SIDE	P6806	N	4	0.0	100.0	1000.0	300.0	0.0	0.0	N	
DHT010	FRACTIONATOR BOTTOMS N. SIDE	P6821	N	4	0.0	100.0	1000.0	300.0	0.0	0.0	N	
TRU	GAGE GLASS BLOWDOWN		Y	1	0.1	25.0	35.0	30.3	0.0	0.0	N	
LSG-1	HCNHT COMPRESSOR DISTANCE PIECES	C800	N	1	4.3	0.0	0.4	0.4	0.0	0.0	N	
TRU009	PUMP UTIL DRAIN	P81051	Y	4	0.0	25.0	35.0	31.7	0.0	0.0	N	
WASTE	TANK A-94 CLEANING - SPENT CARBON OFFSITED		N	4	3.3	0.3	0.3	0.3	0.0	0.0	N	
TRU	SCRUBBER LVL GG BRL DRAIN(HUB#38)		Y	1	0.1	5.0	10.0	8.8	0.0	0.0	N	
CC2028	S. OF HOT TOPS/HGO COOLERS		N	4	0.1	0.0	25.0	10.0	0.0	0.0	N	
HCU040	1ST STAGE FEED, PRV RUPTURE DRAIN	PRV	N	1	0.0	50.0	500.0	160.0	0.0	0.0	N	
TRU	PUMP BASE DRAIN		Y	1	0.0	25.0	35.0	31.6	0.0	0.0	N	
TRU	PUMP BASE DRAIN, HUB #9		Y	1	0.0	25.0	35.0	31.6	0.0	0.0	N	
TRU	PUMP DISCHARGE DRAIN LINE		Y	1	0.0	25.0	35.0	31.6	0.0	0.0	N	
TRU	PUMP DISCHARGE DRAIN, HUB #9		Y	1	0.0	25.0	35.0	31.6	0.0	0.0	N	
TRU008	PUMP UTIL DRAIN	P81050	Y	4	0.0	25.0	35.0	31.7	0.0	0.0	N	
TRU003	PUMP UTILITY DRAIN	P81049	Y	4	0.0	25.0	35.0	31.4	0.0	0.0	N	
STU	MDO LINE BLEEDER		Y	1	0.0	5.0	15.0	12.3	0.0	0.0	N	
ULD	C-4006 LUBE OIL	P04071	N	4	0.5	0.0	0.4	0.4	0.0	0.0	N	

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ULD	C-4006 LUBE OIL	P04077	N	4	0.5	0.0	0.4	0.4	0.0	0.0	N	
CCU-2	HGO SAMPLE STATION		N	3	0.3	0.0	0.4	0.4	0.0	0.0	N	
DU1	HVY GAS OIL SAMPLE STATION		N	3	0.3	0.0	0.4	0.4	0.0	0.0	N	
DU1	DU1 RES SAMPLE STATION		N	3	0.3	0.0	0.4	0.4	0.0	0.0	N	
DU1	DU1 XHGO SAMPLE STATION		N	3	0.3	0.0	0.4	0.4	0.0	0.0	N	
DU1	DU1 XXHGO SAMPLE STATION		N	3	0.3	0.0	0.4	0.4	0.0	0.0	N	
RAU011	DRAIN FOR V2920/V3303/V3316 LEVEL LEG'S	V2920	Y	4	0.0	5.0	10.0	7.4	0.0	0.0	N	
CC1039	N. OF P55111	P55111/55	Y	4	2.0	0.0	5.0	0.0	0.0	0.0	N	
CAU043	PUMP UTILITY DRAIN	P81031	Y	4	0.0	5.0	10.0	7.9	0.0	0.0	N	
ULD	LUBE OIL CLNR P-4005 (B)	B04543	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
ULD	LUBE OIL CLR P-4005	B04543	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
ULD	LUBE OIL FILTER C-4006	V04094	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
ULD	LUBE OIL FILTER C-4006	V04095	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
ULD	LUBE OIL ACCUMULATOR	V04651	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
ULD	GOVERNOR OIL ACCUMULATOR	V04650	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
ULD	LUBE OIL FILTER C-4006	V04096	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
ULD	LUBE OIL FILTER C-4006	V04097	N	4	0.1	0.0	0.4	0.4	0.0	0.0	N	
TRU006	PUMP UTIL DRAIN	P81113	Y	4	0.0	1.0	2.0	1.5	0.0	0.0	N	
RAU011	DRAIN FOR V2920/V3303/V3316 LEVEL LEG'S	V2920	Y	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
TKDRAW	FINISHED RU TK DRAW TO SITE 9		Y	2	0.0	5.0	40.0	49.2	0.0	0.0	N	
TKDRAW	NAPHTHA TK DRAW TO SITE 9		Y	2	0.0	0.5	150.0	41.0	0.0	0.0	N	
TKDRAW	HI OCT. HVY RFMTE DRAW TO SITE 9		Y	2	0.0	2.0	60.0	55.3	0.0	0.0	N	
TKDRAW	HI OCT. LT RFMTE DRAW TO SITE 9		Y	2	0.0	10.0	71.0	55.8	0.0	0.0	N	
TKDRAW	TOL CONC/WATER DRAW TO SITE 9		Y	2	0.0	5.0	40.0	10.1	0.0	0.0	N	
TKDRAW	RAFFINATE TK DRAW TO SITE 9		Y	2	0.0	44.0	88.0	73.4	0.0	0.0	N	
TKDRAW	ALKYLATE/WATER DRAW TO SITE 9		Y	2	0.0	0.0	11.0	4.8	0.0	0.0	N	
TKDRAW	HCC/WATER DRAW TO SITE 9		Y	2	0.0	5.0	30.0	24.0	0.0	0.0	N	
TKDRAW	RESID/COKER CHGE/WATER TO SITE 9		Y	2	0.0	0.0	0.0	0.1	0.0	0.0	N	
SZU	Caustic Scrubber V-5563 Drain/Overflow		Y	1	100.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Exhuast Steam Header Drain at T-5552		Y	1	100.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Scrubber sample cooler AX0915 drain		Y	1	7,000.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Feed sample cooler AX0918 drain		Y	1	7,000.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Recycle H2 sample cooler AX0919 drain		Y	1	7,000.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Stabilizer Vent Gas sample cooler AX0921 drain		Y	1	7,000.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Reformer H2 sample cooler AX0923 drain		Y	1	7,000.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	HP-1 H2 sample cooler AX0924 drain		Y	1	7,000.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Scrubber Blowdown from T-5553		Y	1	300,000	0.0	0.0	0.0	0.0	0.0	N	
SZU	Air Comp Aftercooler T-5563 and Moisture Separator V-5586 drain		Y	1	100.0	0.0	0.0	0.0	0.0	0.0	N	
LSG-1	HCNHT COMPRESSOR KO POT	V4749	N	1	0.0	0.0	2500.0	2500.0	0.0	0.0	N	
LSG-1	HCNHT COMPRESSOR KO POT	V4713	N	1	0.0	0.0	2500.0	2500.0	0.0	0.0	N	
KHT	FUEL GAS KO POT	V-3512	Y	1	0.0	0.0	4.9	4.9	0.0	0.0	N	
DW	JET PUMP LUBE OIL COOLER		Y	1	625,714.3	0	0	0	0.0	0.0	N	
DU2	LC SECOND STG TRY-LINES		Y	1	0.0	10.0	60.0	19.1	0.0	0.0	N	
DU2	LC FIRST STG TRY-LINES		Y	1	0.0	10.0	100.0	19.6	0.0	0.0	N	
DHT	P-6821 KERO/FO BEARING WTR		Y	1	0.0	5.0	50.0	8.9	0.0	0.0	N	
DHT	P-6806 KERO/FO BEARING WTR		Y	1	0.0	5.0	50.0	8.9	0.0	0.0	N	
CFH	DRAIN OFF MDO HEADER		Y	1	0.0	5.0	60.0	9.1	0.0	0.0	N	
CCU-2	FRACT. PRV WATER FLUSH		Y	1	0.0	0.0	25.0	8.8	0.0	0.0	N	
CCU-2	PLYWTR V-872 RUPTURE DISC		Y	1	0.0	5.0	60.0	9.1	0.0	0.0	N	
CCU-1	FRACT. PRV WATER FLUSH		Y	1	0.0	0.0	25.0	8.8	0.0	0.0	N	
CC1027	N. OF CC1 SLURRY PUMPS		N	1	0.0	100.0	1000.0	500.0	0.0	0.0	N	
TKDRAW	BEU FEED/WATER DRAW TO SITE 9		Y	2	0.0	5.0	1000.0	932	0.0	0.0	N	
TKDRAW	CRUDE TANKS DRAW TO SITE 9		Y	2	0.0	0.0	20.0	3.8	0.0	0.0	N	
TKDRAW	LCC/WATER DRAW TO SITE 9		Y	2	0.0	20.0	70.0	38.1	0.0	0.0	N	
TKDRAW	FINISHD BENZENE TK DRAW TO SITE 9		Y	2	0.0	50.0	2000.0	1800.0	0.0	0.0	N	

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BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
TKDRAW	KERO CUTTER/WATER DRAW TO SITE 9		Y	2	0.0	0.0	1.0	1.0	0.0	0.0	N	
SZU	LH Vent Surge Drum (V-3503/4) drain		N	1	0.0	0.0	1,000.0	100.0	0.0	0.0	N	
CCU-2	LO PRESS DISTILLATE SAMPLE		N	3	0.0	5.0	60.0	9.1	0.0	0.0	N	
CCU-1	COLD FEED SAMPLE STATION		N	3	0.00	0.0	109.4	109.4	0.0	0.0	N	
CC2026	IN TRENCH S. OF LPD PUMPS		N	3	0.0	1000.0	30000.0	15000.0	0.0	0.0	N	
CC1059	S.W. END OF CO HEATER	CO HEATER	N	3	0.0	0.0	25.0	10.0	0.0	0.0	N	
VF1041	STEAM GENERATOR 600# - FLOAT OVER	T2441	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
VF1024	DRAIN FOR WASH OUT V1734 & T2438	V1734/T2438	Y	4	0.0	1000.0	3000.0	1500.0	0.0	0.0	N	
VF1022	EXCHANGER T2491 FLOAT-OVER	T2491	Y	4	0.0	50.0	400.0	162.5	0.0	0.0	N	
VF1021	EXCHANGER T2492 FLOAT-OVER	T2492	Y	4	0.0	50.0	400.0	162.5	0.0	0.0	N	
VF1020	EXCHANGER T2494 FLOAT-OVER	T2494	Y	4	0.0	50.0	400.0	162.5	0.0	0.0	N	
VF1004	EXCHANGER T2498/99 FLOAT-OVER	T2498/99	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
VF1003	EXCHANGER T2434/35 FLOAT-OVER	T2434/35	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
TRU011	PUMP UTIL DRAIN - PLUGGED	P81111	Y	4	0.0	0.5	1.0	0.9	0.0	0.0	N	
SZU	Reactor Charge Pump P-6902		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	N	
SZU	Stab V-3500 reflux line drain		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	N	
SZU	Stab TOP/Reflux Pump P-5727 discharge		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	N	
SZU	Stab TOP/Reflux Pump P-5728 discharge		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	N	
SZU	Stab Bttm Pump P-5729		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	N	
SZU	Oxidizer Air Blower C-5740/5741 drain		N	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Air Comp C-5742 lube oil skid drain		N	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Reactor Charge Pump P-6902 Lube Oil skid drain		N	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Recycle Gas Comp C-69001 lube oil skid drain		N	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Recycle Gas Comp C-69001 Cylinder 1/2 distance piece drain		N	4	10.0	0.0	100.0	0.0	0.0	0.0	N	
SZU	Recycle Gas Comp C-69001 Cylinder 3 distance piece drain		N	4	10.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Warm Product Separator Condensers (T-3505/7)		Y	4	0.0	0.0	1,000.0	100.0	0.0	0.0	N	
SZU	BFW Circ Pump Drain P-5731/2		Y	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Scrubber Circ Pump P-5733 Case Drain		Y	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
SZU	Scrubber Circ Pump P-5734 Case Drain		Y	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
GHT	CHARGE PUMP		N	4	0.0	0.0	8000.0	3800.0	0.0	0.0	N	
GHT	T-5125 DRAIN		N	4	0.0	0.0	8000.0	3800.0	0.0	0.0	N	
GHT	PRODUCT SEPARATOR V-5107		N	4	0.0	0.0	7600.0	3500.0	0.0	0.0	N	
GHT	T-5101 DRAIN		N	4	0.0	0.0	7600.0	3500.0	0.0	0.0	N	
GHT	V-5102 STABILIZER COLUMN		N	4	0.0	0.0	7600.0	3500.0	0.0	0.0	N	
GHT	BOTTOMS PUMPS P-68806/07 DRAIN		N	4	0.0	0.0	7600.0	3500.0	0.0	0.0	N	
GHT	STABILIZER ACCUMULATOR V-5108		N	4	0.0	20.0	2500.0	1500.0	0.0	0.0	N	
GHT	TOPS/REFLUX PUMPS P-68808/09		N	4	0.0	20.0	2500.0	1500.0	0.0	0.0	N	
GHT	VENT GAS COMPRESSOR C-68801		N	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
GHT	COMPRESSOR BOTTLES		N	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
GHT	RECYCLE KO POT V-5105		N	4	0.0	0.0	0.0	0.0	0.0	0.0	N	
DU2296	T4244/45 DEISO REBOIL/KERO REFLUX	T4244/45	Y	4	0.0	20000.0	30000.0	27300.0	0.0	0.0	N	
DU2295	T4203/04 DEISO REBOIL/LGO REFLUX	T4203/04	Y	4	0.0	20000.0	30000.0	26250.0	0.0	0.0	N	
DU2294	T4201/02 DEISO REBOIL/LGO REFLUX	T4201/02	Y	4	0.0	20000.0	30000.0	26250.0	0.0	0.0	N	
DU2282	SEPARATOR VESSELS	V3990	N	4	0.0	20000.0	40000.0	29800.0	0.0	0.0	N	
DU2282	OVERHEAD EXCHG-NORTH STRUCTURE, T4168	T4168	Y	4	0.0	10000.0	20000.0	15900.0	0.0	0.0	N	
DU2282	OVERHEAD EXCHG-NORTH STRUCTURE, T4169	T4169	Y	4	0.0	10000.0	20000.0	15900.0	0.0	0.0	N	
DU2282	OVERHEAD EXCHG-NORTH STRUCTURE, T4170	T4170	Y	4	0.0	10000.0	20000.0	15900.0	0.0	0.0	N	
DU2282	OVERHEAD EXCHG-NORTH STRUCTURE, T4330	T4330	Y	4	0.0	20000.0	30000.0	27800.0	0.0	0.0	N	
DU2258a	T4320/21 LC/LCLCR	T4302/03	Y	4	0.0	500.0	2000.0	1000.0	0.0	0.0	N	
DU2257	T4300/01 LC/LC-LCR	T4300/01	Y	4	0.0	500.0	2000.0	600.0	0.0	0.0	N	
DU2256	T4209/10 DEISO BTMS/DEBUT FEED	T4209/10	Y	4	0.0	30000.0	75000.0	50000.0	0.0	0.0	N	
DU2237	T4275/78 DEISO OVERHEAD CONDENSERS	T4275/78	Y	4	0.0	2000.0	10000.0	5000.0	0.0	0.0	N	
DU2214	T4212/13 LOW POINT DRAIN (ASSUM FLOW)	T4212/13	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2214	T4212/13 SRGO COOLERS	T4212/13	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2213	T4214/15 KERO COOLERS	T4214/15	Y	4	0.0	500.0	2000.0	700.0	0.0	0.0	N	

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BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
DU2212	T4208 HVY NAP/SRGO REFLUX	T4208	Y	4	0.0	2000.0	10000.0	4250.0	0.0	0.0	N	
DU2210	T4207 HVY NAP/SRGO REFLUX	T4207	Y	4	0.0	2000.0	10000.0	4250.0	0.0	0.0	N	
DU2209	T4200 HVY NAP/MC COL RELUX	T4200	Y	4	0.0	1000.0	5000.0	3100.0	0.0	0.0	N	
DU2207	T4198/99 KERO/MC HGO REFLUX	T4198/99	Y	4	0.0	500.0	2000.0	450.0	0.0	0.0	N	
DU2204	T4196/97 KERO/MC HGO REFLUX	T4196/97	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2203	T4194/95 KERO/MC HGO REFLUX	T4194/95	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2201	T4187/88 MC/MC HGO REFLUX	T4187/88	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2199	T4193 MC/MC HGO	T4193	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2198	T4192 MC/MC HGO	T4192	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2197	T4191 MC/MC HGO (REF. DU2O197)	T4191	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2196	T4182 MC/SRGO	T4182	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2195	T4180/81 MC/MC HGO	T4180/81	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2194	T4183/84 MC/KERO	T4183/84	Y	4	0.0	1000.0	5000.0	2350.0	0.0	0.0	N	
DU2193	T4242/43 MC/HVY FLASH DIST	T4242/43	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2191	T4238/39 FLUSH OIL DEAD LEG (ASSUM FLOW)	T4238/39	N	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU2191	T4238/39 MC/HVY FLASH DIST	T4238/39	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2190	MC/FL BOTTOMS - T4232	T4232	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2187	T4176 MC/SRGO	T4176	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2186	T4175 MC/HVY NAPHTHA	T4175	Y	4	0.0	2000.0	10000.0	5000.0	0.0	0.0	N	
DU2184	T4174 MC/HVY NAPHTHA	T4174	Y	4	0.0	2000.0	10000.0	5000.0	0.0	0.0	N	
DU2183	T4173 MC/KERO REFLUX EXCHG	T4173	Y	4	0.0	2000.0	10000.0	4300.0	0.0	0.0	N	
DU2182	T4172 MC/KERO REFLUX EXCHG	T4172	Y	4	0.0	2000.0	10000.0	4300.0	0.0	0.0	N	
DU2181	T4171 MC/KERO REFLUX EXCHG	T4171	Y	4	0.0	2000.0	10000.0	4300.0	0.0	0.0	N	
DU2180	T4151 LUBE CRUDE/KEROSENE EXCHG	T4151	Y	4	0.0	500.0	2000.0	850.0	0.0	0.0	N	
DU2179	T4150 LC/KERO EXCHG	T4150	Y	4	0.0	500.0	2000.0	850.0	0.0	0.0	N	
DU2178	T4317 XHGO/TRI-MC,T4306/07 QUENCH	T4317	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2177	T4236/37 MC/HFD EXCHG	T4236/37	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2176	T4234/35 MC/HFD EXCHG	T4234/35	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU2119	T4246 DEBUT BTMS/DEBUT FEED EXCH	T4246	Y	4	0.0	20000.0	30000.0	25300.0	0.0	0.0	N	
DU2118	T4256 DEBUT BTMS/DEBUT FEED EXCH	T4256	Y	4	0.0	20000.0	30000.0	25300.0	0.0	0.0	N	
DU2117	ANALYZER HOUSE #2/DEPROP REB (E4205/06)	ANALYZER	Y	4	0.0	2000.0	10000.0	4600.0	0.0	0.0	N	
DU2114	T4336 DIH BTMS COOLERS	T4336	Y	4	0.0	30000.0	75000.0	50000.0	0.0	0.0	N	
DU2111	T4161 LC/LUBE CRUDE REFLUX	T4161	Y	4	0.0	500.0	2000.0	600.0	0.0	0.0	N	
DU2110	T4160 LC/LUBE CRUDE REFLUX	T4160	Y	4	0.0	500.0	2000.0	600.0	0.0	0.0	N	
DU2108	T4163/64 LC RES/LUBE CRUDE EXCHG	T4163/64	Y	4	0.0	500.0	2000.0	600.0	0.0	0.0	N	
DU2107	T4158/59 LC RES/LUBE CRUDE EXCHG	T4156-59	Y	4	0.0	500.0	2000.0	600.0	0.0	0.0	N	
DU2105	SWS REB/LGO REF-SUCT STRNR P3936/37	P3936/37	Y	4	0.0	1000.0	5000.0	2500.0	0.0	0.0	N	
DU169	E3203/04 EXCHANGER DRAIN	T3206/10	Y	4	0.0	20000.0	30000.0	27800.0	0.0	0.0	N	
DU169	E3205/06 EXCHANGER DRAIN	T3204/08	Y	4	0.0	20000.0	30000.0	27800.0	0.0	0.0	N	
DU169	E3207/08 EXCHANGER DRAIN	T3209/05	Y	4	0.0	10000.0	20000.0	15900.0	0.0	0.0	N	
DU169	E3209/10 EXCHANGER DRAIN	T3207/03	Y	4	0.0	10000.0	20000.0	15900.0	0.0	0.0	N	
DU169	E3237/38 EXCHANGER DRAIN	T3237/38	Y	4	0.0	20000.0	30000.0	25300.0	0.0	0.0	N	
DU169	E3239/2352 EXCHANGER DRAIN	T3239/2352	Y	4	0.0	20000.0	30000.0	25300.0	0.0	0.0	N	
DU169	E3253/54 EXCHANGER DRAIN	T3253/54	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU154	E-2350 MAINT DRAIN 17' LEVEL EAST SIDE	T2350	Y	4	0.0	2000.0	10000.0	6000.0	0.0	0.0	N	
DU154	E-2351/3226 MAINT DRAIN 17' LEVEL EAST SIDE	T2351/3226	Y	4	0.0	1000.0	5000.0	2350.0	0.0	0.0	N	
DU154	E3224/25 MAINT DRAIN 17' LEVEL EAST SIDE	T3224/25	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU154	E3227/28 MAINT DRAIN 17' LEVEL EAST SIDE	T3227/28	Y	4	0.0	500.0	2000.0	700.0	0.0	0.0	N	
DU154	E3229/31 MAINT DRAIN 17' LEVEL EAST SIDE	T3230/32	Y	4	0.0	2000.0	10000.0	5000.0	0.0	0.0	N	
DU154	E3230/32 MAINT DRAIN 17' LEVEL EAST SIDE	T3229/31	Y	4	0.0	2000.0	10000.0	5000.0	0.0	0.0	N	
DU154	MAINT DRAIN 17' LEVEL EAST SIDE	V3230	Y	4	0.0	2000.0	10000.0	6000.0	0.0	0.0	N	
DU154	MAINT DRAIN 17' LEVEL EAST SIDE	V3231	Y	4	0.0	2000.0	10000.0	6000.0	0.0	0.0	N	
DU154	MAINT DRAIN 17' LEVEL EAST SIDE	V3233	Y	4	0.0	2000.0	10000.0	4600.0	0.0	0.0	N	
DU131	E3218/20/19/21 EXCHANGER DRAIN	T3218/21	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU1145	E-3265A/B EXCHANGER DRAIN	T3265A/B	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	

Wood River Refinery
Benzene Waste NESHAPS

BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% - Y=YES; N=NO	WASTE * STREAM TYPE -	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
DU1144	E-3290/89 EXCHANGER DRAIN	T3289/90	Y	4	0.0	500.0	2000.0	700.0	0.0	0.0	N	
DU1136	E-3291 EXCHANGER DRAIN	T3291	Y	4	0.0	10.0	50.0	36.0	0.0	0.0	N	
DU107	E-3233/34/35/36 EXCHANGER DRAIN	T3233/36	Y	4	0.0	2000.0	10000.0	6000.0	0.0	0.0	N	
DU107	E-3275/76 EXCHANGER DRAIN	T3275/76	Y	4	0.0	1000.0	5000.0	2350.0	0.0	0.0	N	
DU107	E3278/79 EXCHANGER DRAIN	T3283/84	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU107	E-3280/81 EXCHANGER DRAIN	T3293/94	Y	4	0.0	2000.0	10000.0	5000.0	0.0	0.0	N	
DU107	E3282/85 EXCHANGER DRAIN	T3292	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU107	E-3283/84 EXCHANGER DRAIN	T3277	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU107	E-3292/77 EXCHANGER DRAIN	T3278/79	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU1069	E-3203/4/5/6/7/8/9/10/37/38/39/2352 EXCHANGER DRAIN		Y	4	0.0	20000.0	40000.0	27800.0	0.0	0.0	N	
DU1069	E-3253/54 EXCHANGER DRAIN		Y	4	0.0	2000.0	10000.0	4000.0	0.0	0.0	N	
DU106	E-3267/68 EXCHANGER DRAIN	T3269/70	Y	4	0.0	500.0	2000.0	700.0	0.0	0.0	N	
DU106	E-3269/70 EXCHANGER DRAIN	T3267/68	Y	4	0.0	500.0	2000.0	700.0	0.0	0.0	N	
DU106	E3271/72 EXCHANGER DRAIN	T3273/74	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU106	E-3273/74 EXCHANGER DRAIN	T3271/72	Y	4	0.0	1000.0	5000.0	3250.0	0.0	0.0	N	
DU106	E3295/96 EXCHANGER DRAIN	T3295/96	Y	4	0.0	1000.0	5000.0	2100.0	0.0	0.0	N	
DU105	E-3261/62 EXCHANGER DRAIN	T3261/62	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU104	E-3257/58 EXCHANGER DRAIN	T3257/58	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU103	E-3259/60 EXCHANGER DRAIN	T3259/60	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
DU101	E3263/64 EXCHANGER DRAIN	T3263/64	Y	4	0.0	50.0	400.0	200.0	0.0	0.0	N	
CC2024	IN TRENCH S. OF ICR PUMPS		N	4	0.0	100.0	1000.0	500.0	0.0	0.0	N	
OTH	RECOVERED OIL/WATER FROM SUMPS TO SITE 9		Y	7	0.0	0.0	10000.0	100.0	0.0	0.0	N	
ENV	WATER DECANT FROM SITE 15/SWMU RECOVERED OILS TO SITE 9/ OTHER UNCONT. SITE		Y	7	0.0	0.0	0.5	0.0	0.0	0.0	N	
ENV	DECANT FROM SWTF IMPOUND RECOVERED OILS TO SITE 9/ OTHER UNCONT. SITE		Y	7	10,560.0	0.0	1.0	0.0	0.0	0.0	N	
WASTE	TANK A-47 CLEANING		N	4	14,545.0	7.0	7.0	7.0	35.7	16.2	N	
WASTE	TANK A-125 CLEANING			4	1,572.0	3.3	3.3	3.3	1.8	0.8	N	
OTH	TANK F-21 RECEIPTS - TK DRAWS/OTHER HCs		N	7	98,700.0	1200.0	6240.0	6240.0	183422.6	83199.2	Y	
CWS	NP GROUNDWATER - FEED TO BIOTRTRS	CT2/2A	Y	7	51,859,000.0	0.0	9.7	5.5	99935.3	45330.0	Y	Remediation waste; TABQ=0
ENV	F-67 Water		Y	7	625,700.0	2.0	1200.0	237.0	51961.7	23569.5	Y	Remediation waste; TABQ=0
DOC	V-1622 / OTHER DOCKS SLOPS - CONTROLLED		Y	1	19,191.0	12.0	90000.0	6655.7	38039.9	17254.6	Y	
CAU	GP MDO ROUTINE FLOW TO F-21		N	1	22,038.7	1170.0	5560.0	5560.0	36493.2	16553.1	Y	
ENV	F-67 Recovered Oil		N	7	14,900.0	100.0	20000.0	6190.0	27468.1	12459.3	Y	Remediation waste; TABQ=0
DU4	DU-4 DESALTER MUDWASH	V1640/41	Y	1	337,014.7	1.0	323.0	91.5	10803.3	4900.3	Y	
LAB	V-1637 TO SITE 9.5, 19 OR 20		N	3	60.0	7460.0	1000000.0	588000.0	10507.0	4765.9	Y	
DU1	MDO STREAMS INTERNALLY TO C-29 FOR RERUN		N	1	18,278.6	1410.0	1610.0	1510	8220.0	3728.5	Y	
ENV	HES SDF: D TANK BOTTOMS AND DNF MATERIALS FEED TO CENTRIFUGE FEED TANKS		Y	6	82,095.0	2.0	308.0	237.0	6817.6	3092.4	Y	
DU4	DU-4 DESALTER BRINE	V1640/41	Y	1	1,436,746.9	4.6	51.5	13.2	6660.0	3020.9	Y	
DU2	DESALTER UPSETS (COMBINED)	V3979	Y	1	57,233.0	0.0	323.0	323.0	6477.1	2938.0	Y	
DU2	DU2 MIXED CRUDE DESALTER BRINE	V3979	Y	1	2,784,400.0	11.6	16.7	6.1	5965.7	2706.0	Y	
HCU	HEAVY NAPHTHA ANALYZERS		N	3	3,129.0	300.0	5429.0	5429.0	5059.1	2294.8	Y	
DU4	SOUR OIL SKIM VESSEL	V1617	N	1	6,257.1	0.0	2241.0	2241.0	4176.1	1894.2	Y	
ENV	D-TANK TRI-LINES/CENTRATE TO CONTROLLED SEWER/ LIFT STATION		Y	6	269,809.0	2.7	30.6	30.6	2892.7	1312.1	Y	
OTH	TANK F-68/72 SOUR WATER STORAGE		Y	7	85,775	4.8	65.7	65.7	1973.3	895.1	Y	
TKDRAW	BEU FEED/WATER DRAW TO SITE 9.5, 19, OR 20		Y	2	3,960.0	5.0	1840.0	932.0	1293.1	586.6	Y	
PPL100	BLENDER AREA - LIGHT REF.		N	4	23.8	102800.0	205600.0	205600.0	1278.7	580.0	Y	
DU1	DU1 DESALTER BRINE		Y	1	2,188,563.0	5.8	9.9	1.5	1184.7	537.4	Y	
CR3005	SEAL OIL TRAP-CONTROLLED	C69022	N	1	150.0	12500.0	36200.0	26067.0	1164.5	528.2	Y	
ENV	GP SWS TOPS et al TO V-4550/M-65 FOR SRU SWS		Y	1	500,600.0	4.9	6.5	6.5	1138.3	516.3	Y	
WASTE	TANK A-94 CLEANING - PRODUCT RECOVERED		N	4	7,091.0	82.0	508.0	508.0	1072.8	486.6	Y	
HCU	V-4336 COMPRESSOR OIL DRAINAGE TO SWR-CONTROLLED		N	1	1,738.0	0.0	1930.0	1930.0	999.0	453.1	Y	
ENV	D TANK RECOVERED OIL TO F-21		N	7	51,465.0	61.0	61.0	61.0	935.0	424.1	Y	
LOGS	SAMPLES FROM MOTOR LAB/PPL AREA (CONTROLLED)		N	3	122.5	24000.0	24000.0	24000.0	875.6	397.2	Y	
WASTE	TANK A-35 CLEANING		N	4	70.5	9000.0	9000.0	9000.0	189.0	85.7	Y	
CR1019	W. SIDE OF C7400 SEAL OIL VENT GAS TRAP-CONTROLLED	C7400	N	1	269.0	8260.0	8260.0	8260.0	661.7	300.2	Y	
CR1	C7401 SEAL OIL VENT GAS TRAP-CONTROLLED	C7401	N	1	152.0	12000.0	12000.0	12000.0	543.2	246.4	Y	

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CR2	SEAL OIL TRAPS-CONTROLLED	C6965	N	1	126.0	14200.0	14200.0	14200.0	532.9	241.7	Y	
ENV	HC DRAW OFF OF CH-278 TO CONTROLLED SEWER HUB		N	2	8,640.0	0.0	500.0	150.0	386.0	175.1	Y	
OTH	SUMPS AND VALVE BOXES TO SITE 9.5 OR 19		Y	7	10,440.0	0.0	10000.0	100.0	365.8	165.9	Y	
TKDRAW	FINISHED RU TK DRAW TO SITE 9.5, 19, OR 20		Y	2	21,000.0	5.0	40.0	49.2	362.0	164.2	Y	
HD2005	HYDROGEN COMPRESSOR SEAL OIL TRAP S. SIDE-CONTROLLED	C69013	N	1	100.0	11200.0	11200.0	11200.0	333.6	151.3	Y	
DU4	SOUR WATER STRIPPER		Y	1	1,924,063.6	0.0	0.4	0.4	269.7	122.3	Y	
TKDRAW	NAPHTHA/WATER TK DRAW TO SITE 9.5, 19, OR 20		Y	2	17,520.0	0.5	150.0	41.0	251.7	114.2	Y	
CR2	SOUTH FLARE KO POT	V3902	Y	1	375.0	0.0	1693.0	1693.0	222.4	100.9	Y	
ENV	SPENT CAUSTIC FROM CH-278		Y	7	995,846.8	0.8	3.8	0.6	213.5	96.9	Y	
OTH	SITE 20 - MISC. SOURCES-HI TOC WATER		Y	7	2,280.0	0.0	2000.0	200.0	159.8	72.5	Y	
WASTE	TANK A-32 CLEANING - PRODUCT RECOVERED		N	4	59.0	6010.0	6010.0	6010.0	105.6	47.9	Y	
KHT	MDO LIQUID DRAIN		Y	1	900.0	100.0	1000.0	300.0	94.6	42.9	Y	
PPL100	BLENDER AREA - LIGHT CAT.		N	4	16.7	10280.0	36000.0	20560.0	89.5	40.6	Y	
PPL030	NORTH BLENDER DRAIN	N. BLEND ARI	N	4	20.0	9000.0	36000.0	15422.0	80.6	36.5	Y	
PPL029	EAST BLENDER DRAIN	E. BLEND ARI	N	4	20.0	9000.0	36000.0	15422.0	80.6	36.5	Y	
PPL025	LOCAL BLENDER DRAIN	LOCAL BLENI	N	4	20.0	9000.0	36000.0	15422.0	80.6	36.5	Y	
TKDRAW	HI OCT. LT RFMTE DRAW TO SITE 9.5, 19, OR 20		Y	2	3,720.0	10.0	71.0	55.8	72.7	33.0	Y	
TKDRAW	CRUDE TANKS DRAW TO SITE 9.5, 19, OR 20		Y	2	52,200.0	0.0	20.0	3.8	69.5	31.5	Y	
SZU	Stab Bttm Pump P-5730		N	4	5.0	10,000.0	50,000.0	45,000.0	67.0	30.4	Y	
DU1	DU1 DESALTER MUDWASH		Y	1	22,106.7	3.3	7.5	7.5	58.1	26.4	Y	
OTH	RECOVERED OIL/WATER EX MISC SOURCES TO SITE 9.5 OR 19		Y	7	1,560.0	0.0	10000.0	100.0	54.7	24.8	Y	
PPL100	BLENDER AREA - HEAVY CAT. CR.		N	4	16.7	1028.0	36000.0	10280.0	44.8	20.3	Y	
PPL100	BLENDER AREA - HEAVY HYD. CR.		N	4	16.7	1028.0	36000.0	10280.0	44.8	20.3	Y	
PPL100	BLENDER AREA - LIGHT ALK.		N	4	16.7	1028.0	36000.0	10280.0	44.8	20.3	Y	
PPL100	BLENDER AREA - BENZENE RAF.		N	4	10.7	10280.0	36000.0	15420.0	43.1	19.6	Y	
DU2	DU2 MIXED CRUDE DESALTER MUDWASH	V3979	Y	1	5,580.0	14.8	25.3	20.1	39.2	17.8	Y	
LSG-1	CNS PRODUCT SEPARATOR		N	1	4.3	0	25000	25000	32.0	14.5	Y	
WASTE	QA LAB WASTE		N	3	1.3	10,800.0	10,800.0	10,800.0	32.0	14.5	Y	
SZU	Stab Vent KO Drum V-5575 drain		N	1	100.0	0.0	10,000.0	1,000.0	29.8	13.5	Y	
VF1	SOUR WATER ACCUMULATOR (OIL PHASE)	V2464	N	1	65.0	0.0	1500.0	1500.0	29.0	13.2	Y	
TKDRAW	RAFFINATE TK DRAW TO SITE 9.5, 19, OR 20		Y	2	2,040.0	10.0	73.4	37.9	27.1	12.3	Y	
PPL013	FOR METER RUN REPAIR	N. LINE 14"	N	4	5.7	9000.0	36000.0	15422.0	23.0	10.4	Y	
DW	COKER OH SETTLING DRUM		Y	1	6,257.1	0	9.61	9.61	21.1	9.6	Y	
DU1	FLARE DRIP LEG	V3129	Y	1	35.0	0.0	1692.0	1692.0	20.7	9.4	Y	
ENV	WATER FROM FLARE SEAL DRUM & VACUUM PUMP		Y	1	187,700.0	0.9	2.4	0.3	17.6	8.0	Y	
TKDRAW	HCC/WATER DRAW TO SITE 9.5, 19, OR 20		Y	2	1,860.0	5.0	30.0	24.0	15.6	7.1	Y	
CR1007	KO POT E. SIDE OF C7401 MAKE GAS COMPRESSOR	C7401	N	1	152.0	0.0	1000.0	300.0	13.6	6.2	Y	
SZU	Feed Sample Vent AX0918		N	3	1.0	10,000.0	50,000.0	45,000.0	13.4	6.1	Y	
SZU	Product Sample Vent AX0920		N	3	1.0	10,000.0	50,000.0	45,000.0	13.4	6.1	Y	
TKDRAW	LCC/WATER DRAW TO SITE 9.5, 19, OR 20		Y	2	660.0	15.0	72.0	38.1	8.8	4.0	Y	
CAU	DEBUT BOTTOMS SAMPLE STATION		N	3	0.9	0.0	17000.0	17000.0	4.6	2.1	Y	
TKDRAW	TOL CONC WATER TO SITE 9.5, 19 OR 20		Y	2	1,140.0	9.0	40.0	10.1	4.0	1.8	Y	
ENV	DEA WATERS TO SITE 9.5, 19, OR 20		Y	7	2,160.0	5.0	5.0	5.0	3.8	1.7	Y	
KHT017	SKIM OIL VESSEL V3548	V3548	N	1	0.5	10.0	30000.0	20000.0	3.0	1.4	Y	
SZU	Recycle Gas KO Drum V-5554 blowdown		N	1	100.0	0.0	1,000.0	100.0	3.0	1.4	Y	
SZU	Reduction Gas Filter/Coalscer V-5564/5 drain		N	1	10.0	0.0	10,000.0	1,000.0	3.0	1.4	Y	
DU4	DU4 SHUTDOWN		N	5	178.6	43.8	43.8	43.8	2.3	1.1	Y	
ULD	STABLIIZER TOPS/REFLUX	P40200	N	4	0.5	0.0	12000.0	12000.0	1.8	0.8	Y	
ULD	STABLIIZER TOPS/REFLUX	P40201	N	4	0.5	0.0	12000.0	12000.0	1.8	0.8	Y	
CR1	SATS, SMR DEA INLET KO POT	V4276	Y	1	262.8	0.0	17.4	17.4	1.6	0.7	Y	
TKDRAW	JET A TK DRAW TO SITE 9.5, 19, OR 20		Y	2	8,880.0	0.0	10.0	0.5	1.6	0.7	Y	
CAU	RICH OIL STILL BTTMS SAMPLE STATION		N	3	0.3	0.0	17000.0	17000.0	1.5	0.7	Y	
CAU	RICH OIL STILL TOPS SAMPLE STATION		N	3	0.3	0.0	17000.0	17000.0	1.5	0.7	Y	
WASTE	HYDROTREATING CATALYSTS OFFSITED		N	4	73.0	42.7	42.7	42.7	1.3	0.6	Y	
CAU	P17 FLARE TRAP (KO DRUM V-904)		Y	1	86.9	0.0	41.0	41.0	1.2	0.6	Y	

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PPL013	FOR METER RUN REPAIR	N. LINE 14"	N	4	5.7	250.0	1500.0	700.0	1.2	0.5	Y	
TKDRAW	FCC CHGE/ GAS OIL WATERS TO SITE 9.5, 19, OR 20		Y	2	15,420.0	0.4	156.9	0.1	0.8	0.4	Y	
TKDRAW	DIESEL TK DRAW TO SITE 9.5, 19, OR 20		Y	2	6,180.0	0.0	5.0	0.3	0.6	0.3	Y	
HCU	FRACTIONATOR BOTTOMS ANALYZER HOUSE	SAMPLE	N	3	3,129.0	0.0	0.4	0.4	0.4	0.2	Y	
PPL013	FOR METER RUN REPAIR	N. LINE 14"	N	4	5.7	50.0	500.0	200.0	0.3	0.2	Y	
BEU	SOLVENT PUMP		N	1	0.1	0.0	10000.0	10000.0	0.3	0.1	Y	
DU2	FUEL GAS KO DRUM	V1566	Y	1	182.5	0.0	4.9	4.9	0.3	0.1	Y	
SZU	Stab Reflux Sample Vent AX0922		N	3	1.0	0.0	10,000.0	1,000.0	0.3	0.1	Y	
CAU	ABSORBER SURGE VESSEL	V-1060	Y	1	12.5	0.0	41.0	41.0	0.2	0.1	Y	
CAU	PRESTRIPPER WATER DRAW		Y	1	12.5	0.0	41.0	41.0	0.2	0.1	Y	
CAU	V-1050 WATER DRAW		Y	1	12.5	0.0	41.0	41.0	0.2	0.1	Y	
TKDRAW	UNTREATED KEROSENE TK DRAW TO SITE 9.5,19, OR 20		Y	2	720.0	0.0	29.7	0.7	0.2	0.1	Y	
SZU	C-69001 Discharge Bottle V-5583 blowdown		N	1	5.0	0.0	1,000.0	100.0	0.1	0.1	Y	
SZU	C-69001 Discharge Bottle V-5581 blowdown		N	1	5.0	0.0	1,000.0	100.0	0.1	0.1	Y	
SZU	C-69001 Discharge Bottle V-5585 blowdown		N	1	5.0	0.0	1,000.0	100.0	0.1	0.1	Y	
CR3	FUEL GAS KO POT		Y	1	86.0	0.0	4.9	4.9	0.1	0.1	Y	
CAU033	PUMP UTILITY DRAIN	P81079	N	1	0.0	10000.0	20000.0	17000.0	0.1	0.1	Y	
CAU010	PUMP UTILITY DRAIN	P8180	N	1	0.0	10000.0	20000.0	17000.0	0.1	0.1	Y	
CAU004	PUMP UTILITY DRAIN	P81086	N	1	0.0	10000.0	20000.0	17000.0	0.1	0.1	Y	
CAU038	AREA DRAIN	P81101	N	1	0.0	10000.0	20000.0	17000.0	0.1	0.0	Y	
CAU046	SAMPLE STATION DRAIN, TWO COMBINED VESSEL TRYLINES	V1062	N	3	0.0	10000.0	20000.0	17000.0	0.1	0.0	Y	
TKDRAW	DIESEL FEED TK DRAW TO SITE 9.5, 19, OR 20		Y	2	600.0	0.0	0.4	0.4	0.1	0.0	Y	
ALKY	CRUDE ALKY DEISOBUT FEED COALESCER	V-3785	Y	1	17.4	0.0	12.6	12.6	0.1	0.0	Y	
HCU	FUEL GAS KO POT	V4175	Y	1	43.4	0.0	4.9	4.9	0.1	0.0	Y	
DHT004	COND KOP; FLARE LINES S.W. CORNER V3359	V3359	N	1	370.0	0.0	10.0	0.5	0.1	0.0	Y	
CAU046	SAMPLE STATION DRAIN, OIL SAMPLE LINE	V1062	N	3	0.0	10000.0	20000.0	17000.0	0.1	0.0	Y	
ULD	STABILIZER BTMS/REBOIL	P40202	N	4	0.5	0.0	300.0	300.0	0.0	0.0	Y	
ULD	STABILIZER BTMS/REBOIL	P40203	N	4	0.5	0.0	300.0	300.0	0.0	0.0	Y	
ULD	STABILIZER BTMS/REBOIL	P40204	N	4	0.5	0.0	300.0	300.0	0.0	0.0	Y	
CAU005	PUMP UTILITY DRAIN	P8174	N	1	0.0	5000.0	10000.0	6000.0	0.0	0.0	Y	
HD2	VENT GAS COMPRESSOR		Y	1	17.4	0.0	4.9	4.9	0.0	0.0	Y	
LSG-1	CNS FLARE KO POT	V4770	Y	1	15.7	0.0	4.9	4.9	0.0	0.0	Y	
CR2004	H2 COMPRESSOR	C6965	N	1	0.0	1000.0	30000.0	9000.0	0.0	0.0	Y	
HD1	COMPRESSOR 66 KO POT	V2897	Y	1	0.5	10.0	500.0	150.0	0.0	0.0	Y	
HD1	COMPRESSOR 66 KO POT	V2881	Y	1	0.5	10.0	500.0	150.0	0.0	0.0	Y	
HD1	COMPRESSOR 67 KO POT	V2877	Y	1	0.5	10.0	500.0	150.0	0.0	0.0	Y	
HD1	COMPRESSOR 67 KO POT	V2896	Y	1	0.5	10.0	500.0	150.0	0.0	0.0	Y	
HD1	COMPRESSOR 6968 KO POT		Y	1	0.5	10.0	500.0	150.0	0.0	0.0	Y	
SMR	FUEL GAS KO POT	V4202	Y	1	12.5	0.0	4.9	4.9	0.0	0.0	Y	
DU4	FUEL GAS KO DRUM		Y	1	12.5	0.0	4.9	4.9	0.0	0.0	Y	
DU1	FUEL GAS KO DRUM	V3237	Y	1	12.5	0.0	4.9	4.9	0.0	0.0	Y	
HD1	FUEL GAS KO POT	V4178	Y	1	12.4	0.0	4.9	4.9	0.0	0.0	Y	
ENV	SWTF IMPOUND RECOVERED OILS TO SITE 9.5 OR 19		Y	7	180.0	0.0	0.0	0	0.0	0.0	Y	
ALKY	DEPROP FEED TREATER	V-3778	Y	1	43.4	0.0	1.0	1.0	0.0	0.0	Y	
ULD	P-4005 SEAL FLUSH COOLER	E043XX	N	4	0.1	0.0	500.0	500.0	0.0	0.0	Y	
DU4	TANK 1714 SOUR WATER FEED TANK		Y	1	6,257.1	9.5	16.5	0.0	0.0	0.0	Y	
ALKY	CRUDE ALKY DEISOBUT OVERHD ACCUM	V-3787	Y	1	26.3	0.0	1.0	1.0	0.0	0.0	Y	
ULD	STABILIZER PUMP SEAL FLUSH FILTER	V04387	N	4	0.1	0.0	300.0	300.0	0.0	0.0	Y	
HCU	COMPRESSOR KO POT	V4150	Y	1	2.3	0.0	8.9	8.9	0.0	0.0	Y	
HCU	COMPRESSOR KO POT	V4151	Y	1	2.3	0.0	8.9	8.9	0.0	0.0	Y	
HCU	COMPRESSOR KO POT	V4152	Y	1	2.3	0.0	8.9	8.9	0.0	0.0	Y	
ULD	LUBE / SEAL OIL CLR C-4006 (B)	E04538	N	4	0.1	0.0	217.6	217.6	0.0	0.0	Y	
ULD	LUBE/ SEAL OIL CLR C-4006	E04538	N	4	0.1	0.0	217.6	217.6	0.0	0.0	Y	
ALKY	DEPROP REFLUX COALESCER	V-3781	Y	1	17.4	0.0	1.0	1.0	0.0	0.0	Y	
ALKY	DEISOBUT TREATER	V-3773	Y	1	17.4	0.0	1.0	1.0	0.0	0.0	Y	

Wood River Refinery
Benzene Waste NESHAPS

BENZENE NESHAP WASTE STREAM REGULATORY STATUS
ANNUAL NOTIFICATION PER 40 CFR 61.357

UNIT AND HUB #	WASTE STREAM IDENTIFICATION	EQUIP NUMBER	WATER CONTENT OVER 10% Y=YES; N=NO	WASTE * STREAM TYPE	ANNUAL WASTE QUANTITY (BBL)	BENZENE CONCENTRATION (ppmw for solid; mg/l for liquid) MIN	MAX	AVG	ANNUAL BENZENE QUANTITY (LBS)	(KGS)	IS STREAM CONTROLLED? Y=YES; N=NO	REMARKS
TKDRAW	RESID/COKER CHGE/WATER TO SITE 9.5, 19 OR 20		Y	2	60.0	0.0	0.4	0.1	0.0	0.0	Y	
CAU	SOUR WATER SAMPLE STATION		Y	3	0.1	0.0	7.9	7.9	0.0	0.0	Y	
CAU	VESSEL TRY LINE SAMPLE STATION		Y	3	0.1	0.0	7.9	7.9	0.0	0.0	Y	
P3618	C6 BOTTOMS SPARE PUMP		N	5	0.33	1000	40000	7027	0.0	0.0	Y	
P3618	C6 BOTTOMS SPARE PUMP		N	5	0.33	1000	40000	7027	0.0	0.0	Y	
P3619	C6 BOTTOMS PUMP		N	5	0.33	1000	40000	7027	0.0	0.0	Y	
P3619	C6 BOTTOMS PUMP		N	5	0.33	1000	40000	7027	0.0	0.0	Y	
P9037	C6 TOPS AND REFLUX SPARE PUMP		N	5	0.33	1000	40000	7027	0.0	0.0	Y	
P9037	C6 TOPS AND REFLUX SPARE PUMP		N	5	0.33	1000	40000	7027	0.0	0.0	Y	
P9038	Col 6 TOPS PUMP		N	5	0.33	1000	40000	7027	0.0	0.0	Y	
CAU	PUMP BASE DRAIN		Y	1	0.0	5.0	10.0	7.9	0.0	0.0	Y	
CAU	PUMP BASE DRAIN		Y	1	0.0	5.0	10.0	7.9	0.0	0.0	Y	
ULD	LUBE OIL CLR P-4005 (B)	E04543	N	4	0.1	0.0	0.4	0.4	0.0	0.0	Y	
ULD	LUBE OIL CLR P-4005	E04543	N	4	0.1	0.0	0.4	0.4	0.0	0.0	Y	
TKDRAW	SEASONAL STRGE TK DRAW TO SITE 9.5, 19, OR 20		Y	2	0.0	0.0	2000.0	21.9	0.0	0.0	Y	
TKDRAW	KERO CUTTER TK DRAW TO SITE 9.5, 19, OR 20		Y	2	0.0	0.0	1.0	1.0	0.0	0.0	Y	
TKDRAW	HI OCT. HVY RFMTE DRAW TO SITE 9.5, 19, OR 20		Y	2	0.0	2.0	60.0	55.3	0.0	0.0	Y	
TKDRAW	ALKYLATE/WATER DRAW TO SITE 9.5, 19, OR 20		Y	2	0.0	0.0	10.9	4.8	0.0	0.0	Y	
TKDRAW	BENZENE TK DRAW TO SITE 9.5, 19, OR 20		Y	2	0.0	50.0	2000.0	1800.0	0.0	0.0	Y	
SZU	Fuel Gas KO Pot V-3512 drain		N	1	100.0	0.0	100.0	0.0	0.0	0.0	Y	
SZU	Rx Blowback Gas Accum V-5553 Drain		N	1	10.0	0.0	10.0	0.0	0.0	0.0	Y	
SZU	Fuel Gas Filter/Coalscer V-5573/4 drain		N	1	10.0	0.0	100.0	0.0	0.0	0.0	Y	
SZU	Rx Blowback Gas Filter V-5570 Drain		N	1	10.0	0.0	10.0	0.0	0.0	0.0	Y	
SZU	Rx Blowback Gas Filter V-5571 Drain		N	1	10.0	0.0	10.0	0.0	0.0	0.0	Y	
SZU	Gaso 1" drain from P-6902 discharge		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	T-3537 shell drain to MDO		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	T-3535 shell drain to MDO		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	T-3535 tube drain to MDO		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	T-3536 shell drain to MDO		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	T-3536 tube drain to MDO		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	T-3502 shell drain to MDO		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	H2 manifold blowdown		N	4	0.0	0.0	1,000.0	100.0	0.0	0.0	Y	
SZU	H2 manifold blowdown		N	4	0.0	0.0	1,000.0	100.0	0.0	0.0	Y	
SZU	Stab Bttm/Feed Exch T-3513 outlet shell drain		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	Stab Bttm/Feed Exch T-3512 inlet shell drain		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	Stab Bttm/FeedExch T-3514 inlet shell drain		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	Stab Bttm/Feed Exch T-3514 tube drain		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	Stab Bttm Cooler T-3517 shell drain		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	Stab Bttm Cooler T-3518 shell drain		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	Stab TOPS Condenser T-3510 shell drain		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	Y	
SZU	Stab TOPS Condenser T-3511 shell drain		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	Y	
SZU	Stab TOP/Reflux Pump P-5727 discharge		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	Y	
SZU	Stab TOP/Reflux Pump P-5728 discharge		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	Y	
SZU	Stab TOP/Reflux Pump discharge to MDO		N	4	0.0	0.0	10,000.0	1,000.0	0.0	0.0	Y	
SZU	Stab Bttm Pumps P-5729/30		N	4	0.0	10,000.0	50,000.0	45,000.0	0.0	0.0	Y	
SZU	MU H2 KO Drum V-5576 Level Bridle drain		N	4	0.0	0.0	10.0	0.0	0.0	0.0	Y	
SZU	Cool Product Separator V-3506 water drain		Y	4	0.0	100.0	50,000.0	10,000.0	0.0	0.0	Y	
ENV	RECOVERED OILS-WWTP TO SITE 9.5, 19, OR 20		Y	7	0.0	812.0	1370.0	61	0.0	0.0	Y	
ENV	RECOVERED OILS-SWMU/SITE 15 AREAS TO SITE 9.5 OR 19		Y	7	0.0	89.0	147.0	0.0	0.0	0.0	Y	

* WASTE STREAM TYPE

1 = PROCESS WASTEWATER 3= SAMPLE PURGE 5= SHUTDOWN 7= OTHERS
2 = TANK DRAWDOWN 4= MAINTENANCE 6= SOLID WASTE

TABQ	354416.8	160760.9
BQ6	11065.9	5019.4