

# CAPLINE SYSTEM

## CRUDE OIL PROPERTIES AND QUALITY INDICATORS

Approved Crude List - 3rd Quarter, 2004

Updated  
October 12, 2004

Section I. Crudes Approved, Moved and Capline Assay Reported																						
MnMn	See Foot-notes	Crude Name	Product Code	Country	Assay Date	Density	RVP	Sulfur	a)Pour Point	Carbon Residue	Viscosity (SSU)			b) H2S	Metals (ppm)				TAN E	SALT	Organic Chlorides (ppm)	
						(API@60)	(psia)	(%)	(degF)	(%)	@60 F	@80 F	@100 F	(ppm)	Whole	Pitch	Whole	Pitch	(mg KOH/g)	(lb/MB)	Whole	Naptha
<b>Sweet - Low Metals Group</b>																						
AME	<input checked="" type="checkbox"/>	AMENAM BLEND	82985	Nigeria	05/25/04	38.2	5.7	0.12	59.0	1.0	48.5	42.7	39.4	<1	0.8	10.0	3.2	48.0	0.34	6	<1	<1
BNL		BONNY LIGHT	82337	Nigeria	10/28/03	33.4	4.5	0.16	-5.8	1.2	52.7	43.9	39.7	<1	0.5	5.2	3.7	43.0	0.26	18	<1	<1
BSR		BRASS RIVER	82325	Nigeria	03/15/04		6.3	0.14	<-27.4	0.8	41.1	37.8	35.4	<1	0.3	3.8	2.0	33.0	0.23	4	<1	<1
BRN	<input checked="" type="checkbox"/>	BRENT	82288	U. K.	05/08/04	38.6	5.6	0.38	5.0	1.6	47.4	41.8	37.6	<1	5.5	39.0	1.1	7.6	<0.05	3	<1	1.1
CAB	<input checked="" type="checkbox"/>	CABINDA	82345	Angola	03/03/03	32.4	2.7	0.13	59.0	3.5	-	-	73.5	<1	1.7	6.0	17.0	63.0	0.17	3	<1	<1
DJEN	<input checked="" type="checkbox"/>	DJENO	82602	Congo	07/05/97	27.0	2.5	0.47	32.0	5.3	695.1	284.3	173.9	<1	6.7	22.0	12.3	62.0	0.82	10	<1	2.4
DRAUG		DRAUGEN	82575	Norway	04/26/02	39.1	7.3	0.16	<-27.4	0.7	42.1	39.2	35.5	<1	1.1	16.0	1.0	13.0	0.18	29	<1	<1
EAN	<input checked="" type="checkbox"/>	EA CRUDE	82991	Nigeria	06/16/04	35.1	3.9	0.08	26.6	0.0	43.0	39.5	36.6	<1	<0.1	0.5	0.9	22.0	0.14	1	<1	<1
EKO		EKOFISK	82307	Norway	05/07/04	37.2	4.2	0.23	-16.6	2.0	62.7	43.7	40.3	<1	1.5	9.1	3.0	19.0	0.10	2	<1	<1
ESC	<input checked="" type="checkbox"/>	ESCRAVOS	82338	Nigeria	06/13/04	34.2	3.9	0.17	5.0	1.4	47.2	41.8	38.6	<1	0.6	-	4.5	-	0.58	15	<1	<1
FON	<input checked="" type="checkbox"/>	FOINAVEN	82424	U. K.	06/12/00	26.6	0.6	0.40	42.8	2.0	478.5	188.6	110.6	<1	4.6	18.8	2.7	10.3	0.16	8	<1	2.0
FOR		FORCADOS	82331	Nigeria	06/03/04	30.8	3.0	0.16	-22.0	0.9	59.1	49.5	44.0	<1	0.3	3.6	2.8	34.0	0.34	2	<1	<1
FOT	<input checked="" type="checkbox"/>	FORTIES	82308	U.K.	09/27/03	44.5	7.9	0.18	-0.4	0.8	36.5	34.4	32.6	<1	1.5	17.0	0.7	7.7	0.42	8	<1	<1
GAL	<input checked="" type="checkbox"/>	GALEOTA	82314	Trinidad	08/24/03	37.8	6.0	0.19	53.6	0.2		37.7	35.1	<1	0.1	-	0.1	-	0.60	4	-	-
GIR		GIRASSOL	82583	Angola	06/11/04	31.0	3.3	0.41	0.0	3.1	116.7	79.0	60.8	<1	7.8	34.0	10.0	46.0	0.31	31	<1	<1
GFA	<input checked="" type="checkbox"/>	GULLFAKS	82270	Norway	07/17/03	36.9	3.6	0.19	37.4	0.1	66.4	39.4	36.0	<1	0.2	2.0	0.1	2.3	0.29	63	<1	<1
HLS	1	HEAVY LA SWEET	82720	USA	03/17/04	32.9	2.2	0.35	<-27.4	2.1	69.3	54.3	46.6	<1	2.0	11.0	3.0	21.0	0.70	86	<1	<1
HBA	<input checked="" type="checkbox"/>	HIBERNIA	82139	Canada	08/16/03	34.4	3.2	0.41	42.8	2.3		52.0	49.9	<1	1.0	4.5	1.0	4.3	<0.05	12	<1	<1
KIT	<input checked="" type="checkbox"/>	KITINA	82580	Congo	09/21/02	36.4	4.2	0.11	59.0	2.3		56.8	48.5	<1	1.0	4.7	9.1	38.0	0.10	4	<1	<1
LMS	1	LA MISSISSIPPI SWEET	82723	USA	03/26/04	40.7	4.2	0.34	-16.6	1.3	43.6	39.3	35.3	<1	0.5	4.0	0.7	5.7	0.19	137	<1	<1
LLS		LIGHT LOUISIANA SWEET	82722	USA	07/07/04	35.6	3.0	0.37	<-27.4	1.5	52.0	45.2	40.3	<1	2.6	20.0	2.6	22.0	0.48	111	<1	<1
LION	<input checked="" type="checkbox"/>	LION CRUDE	82604	Ivory Coast	03/01/04	39.6	7.2	0.18	10.4	1.6	44.2	39.9	36.8	<1	3.7	26.0	3.3	25.0	0.20	10	<1	<1
NAK		NAPHTHA - KOCH	82161	USA	08/03/02	57.8	3.1	0.11	<-27.4	0.2	<32.0	<32.0	<32.0	<1	1.2		0.4		0.11	10	<1	<1
NBA	<input checked="" type="checkbox"/>	NEMBA	82255	Angola	05/03/04	40.9	7.4	0.18	32.0	1.3	40.8	37.8	35.4	<1	1.8	9.2	1.7	9.6	<0.05	64	<1	<1
NOR	<input checked="" type="checkbox"/>	NORNE	82430	Norway	03/17/03	32.6	2.4	0.20	64.4	1.0		56.8	46.5	<1	<0.5	23.5	0.9	8.6	0.07	33	<1	<1
OSB		OSEBERG	82271	Norway	04/26/03	38.7	5.2	0.22	15.8	1.8	45.1	39.4	38.5	<1	1.1	8.6	1.1	8.9	0.11	7	<1	<1
OSO	<input checked="" type="checkbox"/>	OSO CONDENSATE	82403	Nigeria	09/16/02	45.7	8.9	0.06	64.4	0.3	38.2	32.6	<32.0	<1	<0.1		0.7		0.11	10	<1	<1
SAH	<input checked="" type="checkbox"/>	SAHARAN BLEND	82298	Middle East	09/14/04	45.0	7.6	0.09	<-27.4	0.9	36.4	34.6	33.0	<1	0.4	3.0	0.1	1.3	0.05	50	<1	<1
STB		SANTA BARBARA	82251	Venezuela	03/12/03	39.5	5.4	0.49	-22.0	0.9	38.8	36.0	34.2	<1	4.2	69.0	0.9	15.0	0.02	29	<1	<1
SCH	<input checked="" type="checkbox"/>	SCHIEHALLION	82441	Scotland	06/19/04	26.6	1.2	0.42	32.0	2.7	354.0	133.9	89.0	<1	6.8	34.0	4.0	20.0	0.29	19	<1	<1
SLS	1	SOUTH LOUISIANA SWEET	82586	USA	03/18/04	35.9	3.3	0.33	10.4	2.1	54.2	46.4	42.2	<1	1.8	11.0	4.4	28.0	0.32	9	<1	1.1
TROL	<input checked="" type="checkbox"/>	TROLL EXPORT	82421	Norway	07/20/04	28.4	1.9	0.24	10.4	1.6	121.6	75.2	62.2	<1	0.8	3.9	0.8	3.5	1.00	<1	<1	<1
WSB		WILLIAMS SUGARLAND BLEND	82573	USA	07/14/01	40.9	6.4	0.20	37.4	0.7	38.5	36.4	34.3	<1	1.2	22.0	0.8	19.0	0.19	39	<1	1.1
XIK	<input checked="" type="checkbox"/>	XIKOMBA	82982	Angola	09/27/04	34.6	5.0	0.41	32.0	3.6	84.9	51.4	42.1	<1	5.3	13.0	28.0	65.0	0.15	18	<1	<1
YOHO	<input checked="" type="checkbox"/>	YOHO CRUDE	82810	Nigeria	05/10/04	39.3	6.3	0.08	30.0	0.6	39.4	35.2	33.7	<1	<0.1	1.4	1.5	39.0	0.33	5	<1	<1
ZUASW		ZUATA SWEET	82576	Angola	06/02/04	30.1	2.7	0.12	<-27.4	<0.1	64.9	52.5	43.5	<1	0.5	17.0	0.1	4.4	<0.05	1	<1	<1
<b>Sweet - High Metals Group</b>																						
CUS	<input checked="" type="checkbox"/>	CUSIANA	82419	Columbia	06/18/04	43.1	8.5	0.14	21.2	0.8	37.6	33.6	32.4	<1	5.7	104.0	1.5	30.0	<0.05	3	<1	<1
KWI	<input checked="" type="checkbox"/>	QUA IBOE	82339	Nigeria	10/14/03	36.3	4.5	0.14	32.0	1.2	-	40.7	37.4	<1	2.4	37.0	4.4	69.0	0.32	4	<1	<1
<b>Intermediate Group</b>																						
BS	1	BONITO SOUR	82743	USA	12/15/03	35.5	4.7	0.99	-22.0	2.3	60.1	49.9	44.4	<1	7.6	40.0	3.2	18.0	0.67	71	<1	<1
OMA		OLMECA	82385	Mexico	02/18/02	37.3	6.2	0.84	10.4	2.4	48.6	43.1	39.5	<1	11.0	66.0	5.0	26.0	0.15	10	<1	1.9

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Mnmm	Foot-Notes	Crude Name	Product Code	Country	Assay Date	Density	RVP	Sulfur	a)Pour Point	Carbon Residue	Viscosity (SSU)			b) H2S	Metals (ppm)				TAN E	SALT	Organic Chlorides (ppm)	
						(API@60)	(psia)	(%)	(degF)	(%)	@60 F	@80 F	@100 F	(ppm)	Whole	Pitch	Whole	Pitch	(mg KOH/g)	(lb/MB)	Whole	Naphtha
<b>Sour Group</b>																						
AXL		ARABIAN EXTRA LIGHT	82375	Saudi Arabia	03/19/03	39.4	5.1	1.09	<-27.4	1.9	42.5	38.8	36.1	<1	3.0	20.0	1.1	8.0	0.03	20	<1	<1
ABL		ARABIAN LIGHT	82376	Saudi Arabia	10/11/03	32.8	3.7	1.97	-5.8	4.5	68.7	55.6	41.2	<1	18.0	98.0	5.2	28.0	0.05	2	<1	<1
BASLI		BASRAH LT/MESA 30 BLEND (35/65)	82671	Iraq/USA	02/08/01	30.5	3.5	1.63	<-27.4	5.0	92.8	75.5	54.2	<1	39.0	181.0	9.6	43.0	0.09	4	<1	<1
EIC	1	EUGENE ISLAND	82725	USA	03/16/04	34.3	3.4	1.18	<-27.4	3.2	65.3	52.4	45.6	<1	14.0	70.0	5.0	26.0	0.44	44	<1	<1
FUR		FURRIAL	82374	Venezuela	03/19/02	30.0	2.8	1.06	<-27.4	4.3	93.5	69.0	53.6	<1	38.0	179.0	8.2	35.0	0.09	3	<1	<1
MARS	1	MARS BLEND	82754	USA	03/18/04	30.3	4.0	1.91	-22.0	5.0	111.9	78.2	64.5	<1	53.0	161.0	21.0	69.0	0.53	60	<1	<1
MMB		MARS/MESA BLEND (40/60)	82428	Loop	09/08/00	30.1	3.1	1.65	-22.0	5.1	100.0	70.9	57.6	<1	48.0	156.0	14.0	49.0	0.27	85	<1	<1
MSA		MESA 30	82369	Venezuela	04/22/04	29.4	2.8	1.12	<-27.4	5.0	104.8	74.4	59.1	<1	51.0	209.0	11.0	45.0	0.09	5	<1	<1
ORI		ORIENTE	82388	Ecuador	01/05/01	24.1	2.8	1.51	5.0	9.3	652.6	356.4	201.0	<1	167.0	240.0	66.0	240.0	0.13	61	<1	<1
PSD	1	POSEIDON	82749	USA	03/17/04	30.7	3.4	1.62	<-27.4	3.7	94.5	70.6	57.6	<1	30.0	101.0	12.0	38.0	0.89	15	<1	<1
URA		URALS	82370	C.I.S. Euro	04/21/04	31.7	5.4	1.35	-0.4	3.8	78.8	62.1	50.9	<1	175.0	217.0	55.0	70.0	0.07	30	<1	<1
VAS	<input checked="" type="checkbox"/>	VASCONIA	82237	Colombia	02/09/02	24.5	1.9	1.01	37.4	6.0	440.8	229.5	130.6	<1	144.0	349.0	67.0	171.0	0.78	6	<1	<1
<b>High Sulfur Sour Group</b>																						
ABH		ARABIAN HEAVY	82378	Saudi Arabia	05/19/01	27.7	4.3	2.87	<-27.4	7.8	226.2	145.8	99.6	<1	49.0	181.0	15.0	59.0	<0.10	6	<1	<1
ABL17		ARABIAN LIGHT / SEG 17 BLEND	82987	USA	04/21/04	32.1	3.4	2.19	<-27.4	5.2	78.8	59.8	50.1	<1	27.0	110.0	7.8	31.0	0.12	3	<1	<1
ABM		ARABIAN MEDIUM	82377	Saudi Arabia	04/29/04	30.2	4.2	2.59	-22.0	6.3	116.0	85.1	63.7	<1	42.0	161.0	13.0	49.0	0.21	4	<1	<1
BAS		BASRAH LIGHT	82383	Iraq	04/23/03	30.5	5.4	2.90	<-27.4	6.2	92.2	73.0	60.7	<1	45.0	163.0	12.0	45.0	0.37	14	<1	<1
EMX	<input checked="" type="checkbox"/>	EAST MS MIX	82521	USA	09/03/03	30.9	3.0	2.10	15.8	7.3	106.7	78.5	57.3	23	23.0	87.0	8.0	31.0	0.26	250	<1	<1
KIR		KIRKUK	82384	IRAQ	03/11/03	33.9	4.6	2.26	-0.4	4.9	62.9	52.3	45.6	<1	31.0	128.0	13.0	53.0	0.12	75	<1	<1
KUW		KUWAIT	82380	Kuwait	06/19/04	30.2	4.7	2.72	<-27.4	6.5	109.8	77.6	63.8	<1	35.0	110.0	11.0	36.0	<0.05	4	<1	<1
<b>Section II. Crudes Approved, Moved, Pending Capline Assay</b>																						
<b>Sweet - Low Metals Group</b>																						
HUN		HUNGO	82965	Angola	07/14/04	27.4	3.0	0.65	22.0	5.7	215.0	134.0	91.0	<1	18.6	75.0	20.5	86.0	0.72	30	-	-
MARB	<input checked="" type="checkbox"/>	MARIB LIGHT (ALIF)	82352	North Yem	05/12/98	48.9	8.6	0.07	-22.0	0.6	32.1	31.4	30.4	<1	1.0	<1	1.0	<1	0.16	<1	<1	<1
MUB		MARS/URALS BLEND (50/50)	82998	USA	07/09/04	31.1	5.4	1.57	-16.0	4.4	89.0	70.0	55.0	-	37.6	172.7	12.1	58.3	0.38	104	-	-
ODU		ODUDU	82110	Nigeria	11/27/98	30.5	3.3	0.15	<-27.4		60.8	51.1	44.0	<1	1.2	8.9	6.7	59.0	0.77	65	8.0	<1
OKON	<input checked="" type="checkbox"/>	OKONO	82584	Nigeria	02/09/02	41.9	7.7	0.06	64.4	0.4	39.0	35.0	33.0	-	<2	4.0	2.0	57.0	0.34	13	-	-
PSOYO	<input checked="" type="checkbox"/>	PALANCA/SOYO	82460	Angola	01/01/99	37.8	7.8	0.16	45.0	1.5	48.7	42.7	40.5	<1	1.7	15.4	1.5	13.1	0.05	27	<1	<1
RABL	<input checked="" type="checkbox"/>	RABI LIGHT	82999	Gabon	07/15/04	37.7	3.8	0.15	71.6	-	88.0	65.0	54.0	<1	1.2	3.0	10.0	69.0	0.08	-	-	-
UKPOK	<input checked="" type="checkbox"/>	UKPOKITI	82577	Nigeria	02/01/01	41.7	4.9	0.08	53.7	0.4	31.3	30.5	29.2	-	<2	<2	<2	20.0	0.30	28	-	-
<b>Sour Group</b>																						
BCSR	<input checked="" type="checkbox"/>	BAYOU CHOCTAW - SOUR	82174	USA	05/01/98	32.2	3.6	1.43	11.0	4.0	76.8	57.0	47.3	100	40.3	240.0	11.1	66.0	0.13	<50	<0.1	
<b>Section III. Crudes Approved, Not Moved</b>																						
<b>Sweet - Low Metals/ High Metals Groups</b>																						
BCSW		BAYOU CHOCTAW - SWEET	82268	USA	10/06/04	36.0	4.6	0.36	31.0	2.2	52.0	46.0	42.0	-	5.5	41.0	3.5	26.2	0.08	-	-	-
PHD		PORT HUDSON	82864	USA	07/19/04	45.0	4.1	0.05	30.0	0.2	36.0	34.0	33.0	<1	0.4	11.0	0.4	8.0	0.05	<1	-	-
RGN	<input checked="" type="checkbox"/>	RIO GRANDE DE NORTE	82994	Brazil	04/28/04	29.5	5.0	0.33	64.4	4.4	290.0	130.0	120.0	<1	<5	17.0	10.0	38.0	0.46	5	-	-
<b>Intermediate Group</b>																						
AMB		AMENAM / MARS BLEND	82942	USA	07/21/04	33.5	7.9	0.94	5.0	2.9	56.6	48.7	43.7	<1	19.0	122.0	10.0	63.0	0.50	140	-	-
<b>Sour / High Sulfur Sour Groups</b>																						
BASM		BASRAH LIGHT/MARS BLN (75/25)	82554	USA	09/30/04	32.1	5.3	2.16	-38.2	4.7	118.0	74.0	56.7	<1	11.9		37.1		0.18	33	-	-
KMB		KUWAIT/MARS BLEND (50/50)	82186	USA	09/30/04	30.5	5.7	2.20	-40.0	5.6	110.0	76.0	59.0	1.0	36.7	142.0	13.2	51.0	0.33	135	-	-
KMB2		KUWAIT/MARS BLEND (33/67)	82187	USA	09/30/04	30.5	5.2	2.00	-40.0	5.3	106.0	76.0	59.0	1.0	37.0	74.0	14.0	28.0	0.40	175	-	-
MUB2		MARS/URALS BLEND (33/67)	82183	USA	09/27/04	31.2	4.9	1.53	-7.5	4.2	89.0	67.0	57.0	-	134.7	198.5	43.8	69.7	0.22	40	-	-
OGU	<input checked="" type="checkbox"/>	OGUENDJO	82995	Gabon	06/15/04	27.3	4.5	1.50	54.0	5.2	280.0	160.0	108.0	<5	43.0	135.0	69.0	233.0	1.70	-	-	-

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**HYDROCARBON**

**FOOTNOTES**

AMENAM	Must be monitored for pour point depression.
BAYOU CHOCTAW - SOUR	!! Due to Hydrogen Sulfide results- Take safety precautions !!
BRENT	Must be monitored for pour point depression.
CABINDA	Must be monitored for pour point depression. ! Viscosity at 60 and 80F not accurately measured - too close to pour point.
CUSIANA	Must be monitored for pour point depression. . Note: Cusiana continues to have HIGH Metals. Cusiana will be moved as a Sweet/ High Metals batch unless metals return to previous low levels. Due to RVP, to move in summer months, must be shipped on a case by case basis and approved prior to each nomination.
DJENO	Must be monitored for pour point depression.
EA CRUDE	Must be monitored for pour point depression.
EAST MS MIX	!! Due to Hydrogen Sulfide results- Take safety precautions !!
ESCRAVOS	Must be monitored for pour point depression.
FOINAVEN	Must be monitored for pour point depression.
FORTIES	RVP and Acid Number were much higher than expected based on assay received
GALEOTA	Must be monitored for pour point depression.
GULLFAKS	Must be monitored for pour point depression.
HIBERNIA	Must be monitored for pour point depression.
KITINA	Must be monitored for pour point depression.
LION	Must be monitored for pour point depression.
MARIB LIGHT	Due to RVP, to move in summer months, must be shipped on a case by case basis and approved prior to each nomination.
NEMBA	Must be monitored for pour point depression.
NORNE	Must be monitored for pour point depression.
OGUENDJO	Must be monitored for pour point depression.
OKONO	Must be monitored for pour point depression.
OSO CONDENSATE	Must be monitored for pour point depression. Due to RVP, must be shipped on a case by case basis and approved prior to each nomination.
PALANCA/SOYO BLEND	Must be monitored for pour point depression.
QUA IBOE	Must be monitored for pour point depression.
RABI LIGHT	Must be monitored for pour point depression.
RIO GRANDE DE NORTE	Must be monitored for pour point depression.
SAHARAN BLEND	Due to RVP, must be shipped on a case by case basis and approved prior to each nomination.
SCHIEHALLION	Must be monitored for pour point depression.
TROLL EXPORT	Acid number on Troll Export continues to be higher than usual. Will continue to move with Sweet Low Metals group and will monitor.
UKPOKITI	Must be monitored for pour point depression.
VASCONIA	Must be monitored for pour point depression.
XIKOMBA	Must be monitored for pour point depression.
YOHO CRUDE	Must be monitored for pour point depression.

- 1 ALL GOM CRUDES Domestic crudes were not sampled in the Aug/Sep timeframe as expected for this listing due to varying production caused by the storms.  
These crudes will be sampled as soon as the crude supply/production becomes stable.

a) POUR POINT may have been depressed in the sample taken for this assay.

b) Due to loss of H<sub>2</sub>S in sampling and shipping, H<sub>2</sub>S is likely higher than stated in this assay. TAKE precautions with all crude oils - sour or sweet.

Updated  
October 12, 2004

**CAPLINE SYSTEM**  
**CRUDE OIL PROPERTIES AND QUALITY INDICATORS**  
 Approved Crude List - 3rd Quarter, 2004

**NOTES**

**CRITERIA FOR GROUPING CRUDES ON CAPLINE**

Group	Criteria			
	Sulfur %w	Ni + V ppm	TAN mg KOH/g	Salt lb/1000 bbl
Sweet - Low Metals	< 0.5	<= 100	<= 1.0	<= 75
Sweet - High Metals	< 0.5	<= 250	<= 1.0	<= 75
Intermediate	0.5 - 1.0	<= 550	<= 1.0	<= 75
Sour	>1.0 - 2.0	<= 1200	<= 1.5	<= 75
High Sulfur Sour	> 2.0	<= 1200	<= 2.0	<= 75

**POUR POINT REQUIREMENTS**

**Summer** Start on or after April 1 and Clear of system by September 30 <= +55I  
**Winter** Start October 1 - March 31 <= +35F

**RVP LIMITATIONS**

**Year-Round** RVP of <= 8.6 psi accepted year-round  
**Winter** Start on or after October 1 and Clear of system by April 30 <= 9.6  
 NOTE: Winter RVP > 9.6 Subject to Management Approval

**CRUDES REMOVED AS OF THIS LISTING:**

Crude	Assay or Approval Date
Cusiana/LLS Blend	5/15/2000
Port Hudson	7/19/2004

**Crudes not moved within three (3) years will be removed from the list.**  
**Newly approved crudes that have not moved within six (6) months will be removed from the list.**