

000001

ESTUDIO TOPOGRÁFICO

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Informe

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1 INTRODUCCION

El presente informe forma parte del Expediente Técnico del Proyecto "Consultoría para la Elaboración del Estudio Definitivo y Expediente Técnico de Obra: Cambio de Redes de Alcantarillado- C.H. Palomino- Distrito Cercado de Lima".

Este Informe presenta información definitiva de los Servicios de Campo, gabinete y está referido a los Servicios Topográficos, ejecutados por el Consorcio Proyectos Lima, como parte integrante de los estudio de inversión anteriormente citado.

Los trabajos que integran este Informe reflejan la obtención de la información de toda la CH. Palomino, y zonas colindantes por donde se trazaron las rutas de las obras líneas, necesaria para las obras a proyectarse y es resultado de los trabajos desarrollados en forma sistemática tanto en campo como en gabinete.

El levantamiento topográfico se refiere al establecimiento de puntos de control horizontal y vertical.

En efecto, se requiere por una parte una cantidad suficiente de puntos de control vertical e igualmente suficientes puntos de control horizontal para los casos de verificación y replanteo en el desarrollo del proyecto y posterior construcción.

Es importante mencionar que los levantamientos topográficos se efectuaron basándose en una poligonal de apoyo electrónica cerrada con medida directa utilizando la estación total y nivel de ingeniero como equipo de precisión, cuyos vértices han sido ubicados y monumentos.

Para georeferenciar la poligonal se estableció tres puntos de control en los vértices de la poligonal con la ayuda de un GPS Diferencial amarrados a la base del IGN en el sistema UTM WGS-84, para el control altimétrico de la poligonal se tomó como base altimétrica a un BM Oficial perteneciente al Instituto Geográfico Nacional.




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2 UBICACIÓN DEL AREA DE ESTUDIO

2.1 Ubicación Geográfica

El C.H. Palomino se encuentra localizado en el distrito de Lima, Provincia de Lima, Departamento de Lima. A una altitud de 90.00 m.s.n.m. y cuyas coordenadas geográficas es 12° 03' 38.2" de Latitud Sur y 77° 04' 14.5" de Longitud Oeste (Coordenadas UTM WGS84: 274591.48m E, 8665892.74m N).

2.2 Limites

Límites del proyecto:

- Por el Norte: con la Av. Venezuela.
- Por el Este: con la Av. La Alborada.
- Por el Sur: con Ca. Santa Mariana de Paredes y la Av. Alejandro Bertello.
- Por el Oeste: con Ca. Santa Bernardita.

2.3 Ubicación

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Ilustración 1: Ubicación del Proyecto

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3 ALCANCE DE LOS SERVICIOS

Los Servicios de Campo que conforman este Informe están basados en los Términos de Referencia del Proyecto "Consultoría para la Elaboración del Estudio Definitivo y Expediente Técnico de Obra: Cambio de Redes de Alcantarillado Urb. Caja de Agua distrito de San Juan de Lurigancho". En los levantamientos ejecutados se ha procurado obtener toda la información y características necesarias del terreno y estructuras existentes para el mejor trazo de las obras a proyectarse.

3.1 Levantamiento de Obras Lineales

Estos trabajos comprenden el levantamiento de las redes de alcantarillado y agua potable primaria y secundaria, abarcando todos los componentes que estas contengan así como buzones, buzonetes, conexiones convencionales, conexiones condominiales, válvulas, hidrantes, etc.

3.2 Levantamiento de Estructuras

Se ha contemplado en el levantamiento como estructuras existentes a las involucradas en los sistemas de agua potable y alcantarillado, así se tiene a los reservorios existentes, cámara de bombeo, cisternas, casetas, cámara de purga, cámara de aire, etc.

3.3 Levantamiento de Componentes Cartográficos

Dentro de la Urb. Caja de Agua se ha levantado todos los componentes cartográficos existentes como, manzanas, lotes, edificaciones en general, veredas, jardines, lozas deportivas, postes de luz, poste de teléfono, poste de media tensión, escaleras, desniveles, buzones de telefonía, buzones eléctricos, etc.



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4 EQUIPOS UTILIZADOS

Los equipos utilizados en el levantamiento topográficos cuentan con certificado de calibración a la fecha.

4.1 Equipo de Gabinete

- 01 Computadora Intel Core I7
- 01 Impresora HP 120

4.2 Software

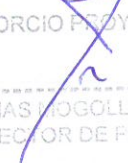
- Topcon link, AutoCAD Land y 3D Civil.
- Office 2010
- Mapsource
- Google Earth, Google Maps, Arc gis 9.3
- Herramientas de Internet Explorer.

4.3 Equipo de Campo

- 01 Estación Total Topcon (Precisión 6")
- 01 Nivel de Ingeniero Automático Geomax
- 02 Miras de aluminio retráctil de 5.00 m.
- 03 Porta prismas
- 03 Prismas
- 02 Wincha metálica 5.0 m
- 02 Niveles esféricos
- 04 Pares de radio
- 01 Camioneta




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5 METODOLOGIA DE TRABAJO

En función a la importancia de los Estudios a ejecutarse como son los diseños de las redes de alcantarillado en la Urb. Palomino, y para el cumplir con los requerimientos establecidos en los Términos de Referencia, se han empleado equipos electrónicos de alta precisión como son las Estaciones Totales, GPS en modo Diferencial y Nivel de Ingeniero. Se procederá a describir el procedimiento ejecutado en campo.

5.1 Reconocimiento de Campo

El primer día se procedió a recorrer el área de Estudio, las vías de acceso principales, los límites del proyecto y así poder determinar el lugar donde se ubicaran los Bms Auxiliares y los vértices de la poligonal.

5.2 Monumentacion de Puntos

Ubicados los puntos de la poligonal y los Bms se procedió a su monumentacion, se establecieron dos hitos con placa de bronce en los vértices de la poligonal y los demás hitos con una base de concreto en forma circular, teniendo en la parte superior una varilla de 1/2 pulgada incrustada unos 40 cm. Los Hitos están ubicados en una zona estratégica y debidamente señalizados, además tendrá cada uno su respectiva ficha técnica.




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Ilustración 2: Placa de Bronce

5.3 Establecimiento de la Poligonal

Para el levantamiento de la Urb. Palomino se establecerá una poligonal cerrada de 12 vértices, la cual se encontrara dentro del área del proyecto, la designación de los vértices será desde el vértice "A" hasta el vértice "L" y en sentido antihorario.

La poligonal tendrá un perímetro de 2643.825ml y un área de 382801.204m².

5.4 Establecimiento de los Puntos Geodésicos

Se establecieron tres puntos geodésicos los cuales serán nuestra base geodésica para amarrar nuestra poligonal y georreferenciarla al sistema UTM WGS-84 18S.

Los puntos Geodésicos son el V-A, V-B y el V-C los que se encuentran en los vértices y estos puntos geodésicos son de orden C.

El post-proceso de los puntos fue ajustado con la base permanente del IGN, el ajuste se realizó con la data del día que se tomó las lecturas. El informe de geodesia se encuentra en los anexos.



5.5 Lectura de la Poligonal

La lectura de la Poligonal se realizó con la Estación Total Topcon GTS 236W, la lectura de los vértices se realizaron en sentido Antihorario tomando lecturas en modo fino y con lecturas repetidas para promediarlas. Las lecturas se realizaron en cada vértice de la poligonal para poder cerrarla.

Antes de las lecturas en el equipo se ajustó los parámetros de Temperatura, Presión Atmosférica.

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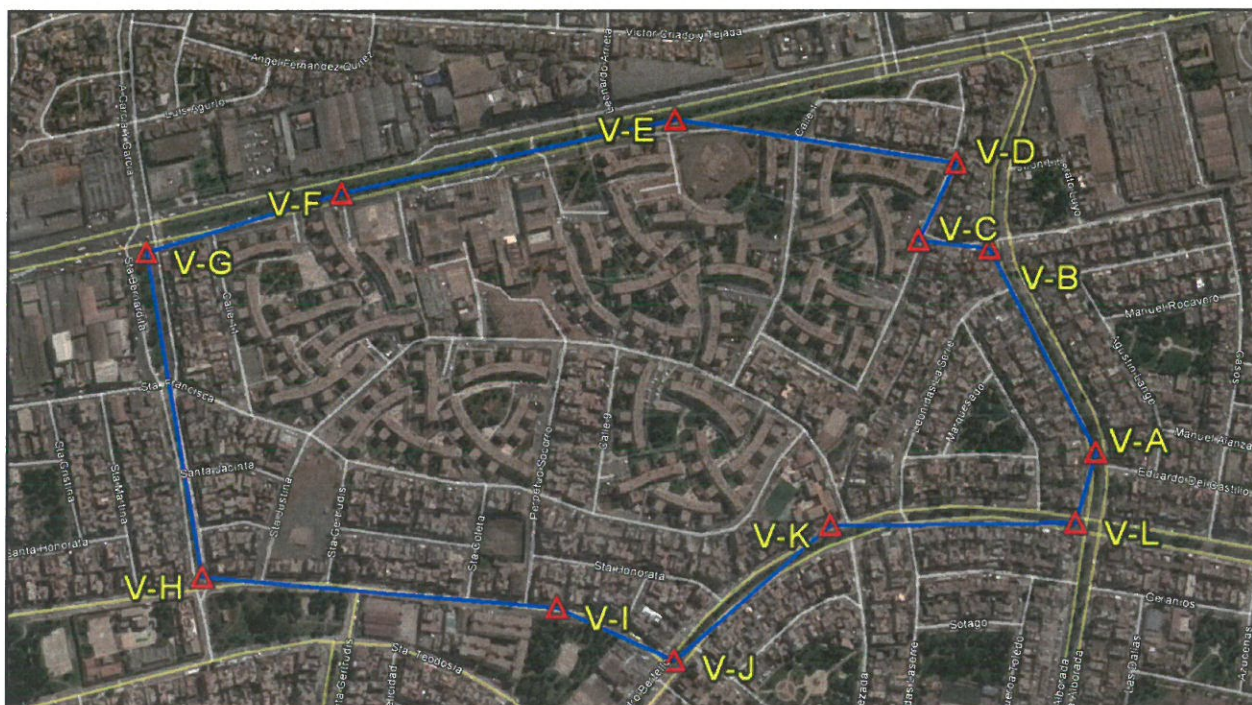


Ilustración 3: Ubicación de la poligonal

5.6 Establecimiento de los BMs

Los Bms auxiliares se establecieron las áreas alejadas de la poligonal, la nivelación se amarro a un Bm Oficial del Instituto Geográfico Nacional, el Bm se encuentra ubicado en el cruce de las avenidas Venezuela y Tingo María. La nivelación fue de doble lectura y con distancia de 70 metros por cada visual.

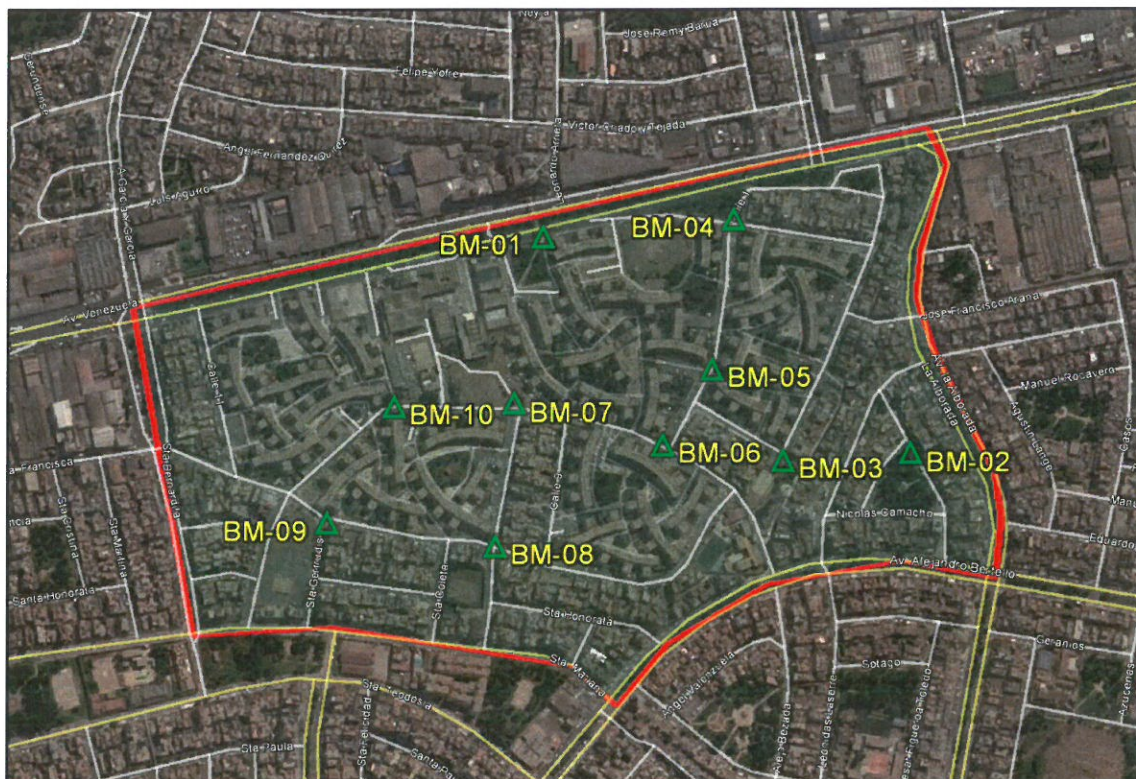


Ilustración 4: Ubicación de BMS



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5.7 Levantamiento Topográfico

Para los trabajos de levantamiento topográfico de las obras lineales se siguió el siguiente procedimiento:

Apoyados en los vértices de las Poligonales de Control, se procede a estacionar la estación total en el vértice de la poligonal y dar como vista de referencia atrás unos de los vértices consecutivos a donde se estaciono, estando el equipo listo para la lectura de todos los componentes visibles desde el punto estacionado.

Los componentes cartográficos levantados son edificaciones, veredas, pistas, postes, manzanas, lotes, etc. Así también forman parte del levantamiento las redes existentes de alcantarillado y agua potable.

Para ello se hizo uso de una Estación Total y un nivel automático; los cuales se apoyaron en una red de poligonal cerrada ajustada y calculada previamente con un equipo de Estación Total.

Estos trazos que generan los planos, han sido procesados en dibujos Vectorizados en Auto CAD LAND y CIVL 3D. Los archivos están en unidades métricas. Los puntos son incluidos como bloques en la capa Puntos Topográficos y controlada en tres tipos de información básica (número de punto, descripción y elevación).

6 CALCULOS

6.1 Poligonal

6.1.1 Datos de campo

VERTICE	LADO	DISTANC.	ANG. INTERNO	AZIMUT	COORDENADAS		COTA
					ESTE	NORTE	
A	A-B	235.242	136.7680324	333.090972	275042.495	8665798.588	93.596
B	B-C	73.16	123.8458102	276.936782	274936.030	8666008.359	92.951
C	C-D	89.972	288.5121991	385.448981	274863.406	8666017.195	91.582
D	D-E	296.83	73.49525463	278.944236	274902.068	8666098.437	92.301
E	E-F	357.033	158.1613657	257.105602	274608.848	8666144.586	88.526
F	F-G	213.953	175.5896991	252.695301	274260.818	8666064.912	83.445
G	G-H	344.358	95.48914352	168.184444	274056.549	8666001.271	80.296
H	H-I	367.483	106.1991435	94.383588	274127.061	8665664.209	79.757
I	I-J	131.002	198.9441435	113.327731	274493.469	8665636.121	84.042
J	J-A	210.136	115.6019213	408.929653	274613.762	8665584.246	86.443
K	K-B	249.105	220.2013657	449.131019	274772.184	8665722.302	89.455
L	L-A	75.552	107.1919213	376.32294	275021.260	8665726.080	92.840

Tabla 1: Datos de Campo Poligonal



6.1.2 Calculo Angulo Horizontal

EST.	LADO	ANGULO HORIZONTAL					
		PROMEDIO				COMPENS.	VERDADERO
		GRAD	MIN	SEG			
A	A-B	136	46	6	136.7683333	-0.000300926	136.7680324
B	B-C	123	50	46	123.8461111	-0.000300926	123.8458102
C	C-D	288	30	45	288.5125	-0.000300926	288.5121991
D	D-E	73	29	44	73.49555556	-0.000300926	73.49525463
E	E-F	158	9	42	158.1616667	-0.000300926	158.1613657
F	F-G	175	35	24	175.59	-0.000300926	175.5896991
G	G-H	95	29	22	95.48944444	-0.000300926	95.48914352
H	H-I	106	11	58	106.1994444	-0.000300926	106.1991435
I	I-J	198	56	40	198.9444444	-0.000300926	198.9441435
J	J-A	115	36	8	115.6022222	-0.000300926	115.6019213
K	K-B	220	12	6	220.2016667	-0.000300926	220.2013657
L	L-A	107	11	32	107.1922222	-0.000300926	107.1919213

Tabla 2: Angulo Horizontal Poligonal

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6.1.3 Calculo Azimutal

VERTICE	LADO	DISTANCIA	ANG. INTERNO	AZIMUT
A	A-B	235.242	136.768032	333.091
B	B-C	73.16	123.84581	276.9368
C	C-D	89.972	288.512199	385.449
D	D-E	296.83	73.4952546	278.9442
E	E-F	357.033	158.161366	257.1056
F	F-G	213.953	175.589699	252.6953
G	G-H	344.358	95.4891435	168.1844
H	H-I	367.483	106.199144	94.38359
I	I-J	131.002	198.944144	113.3277
J	J-A	210.136	115.601921	408.9297
K	K-B	249.105	220.201366	449.131
L	L-A	75.552	107.191921	376.3229

Tabla 3: Calculo Azimut Poligonal 02

6.1.4 Criterios de Calculo

EA= ERROR ANGULAR
$\sum a_i - (180 \times (n^\circ \text{ vert} - 2))$

a_i : Angulo internos
 $n^\circ \text{ vert}$: número de vértices

TA= TOLERANCIA ANGULAR
$p_i \times (n^\circ \text{ vert})^{1/2}$

p_i : precisión instrumento
 $n^\circ \text{ vert}$: número de vértices


ELC= ERROR LINEAL DE CIERRE
$\text{RAIZ}((\text{POTENCIA}(p_x, 2) + \text{POTENCIA}(p_y, 2)))$

p_x : proyección en X
 p_y : proyección en Y

ER= ERROR RELATIVO
$\frac{1}{(PE \times ELC)}$

PE: perímetro
 ELC: error lineal de cierre




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6.1.5 Cálculo Poligonal

POLIGONAL CERRADA URB. PALOMINO

EST.	LADO	ANGULO HORIZONTAL						DIST. HORIZ.	AZIMUT	PROYECCION			CORRECCIONES			PROYECCION CORREGIDA			COORDENADAS		COTA
		PROMEDIO			COMPENS.	VERDADERO	X			Y	X	Y	X	Y	ESTE	NORTE					
		GRAD	MIN	SEG																	
A	A-B	136	46	6	136.768333	-0.0003009	136.7680324	235.242	333.09097	-106.4647	209.77146	0.00012	0.00006	-106.46458	209.77152	275042.495	8665798.588	93.596			
B	B-C	123	50	46	123.846111	-0.0003009	123.8458102	73.16	276.93678	-72.62447	8.83584	0.00004	0.00002	-72.62443	8.83586	274936.030	8666008.359	92.951			
C	C-D	288	30	45	288.5125	-0.0003009	288.5121991	89.972	385.44898	38.66162	81.24186	0.00005	0.00002	38.66167	81.24188	274863.406	8666017.195	91.582			
D	D-E	73	29	44	73.4955556	-0.0003009	73.49525463	296.83	278.94424	-293.2206	46.14908	0.00016	0.00008	-293.22042	46.14916	274902.068	8666098.437	92.301			
E	E-F	158	9	42	158.161667	-0.0003009	158.1613657	357.033	257.1056	-348.0297	-79.67363	0.00019	0.00009	-348.02951	-79.67354	274608.848	8666144.586	88.526			
F	F-G	175	35	24	175.59	-0.0003009	175.5896991	213.953	252.6953	-204.2687	-63.641	0.00011	0.00005	-204.26861	-63.64095	274260.818	8666064.912	83.445			
G	G-H	95	29	22	95.4894444	-0.0003009	95.48914352	344.358	168.18444	70.51136	-337.0617	0.00018	0.00009	70.51154	-337.06160	274056.549	8666001.271	80.296			
H	H-I	106	11	58	106.199444	-0.0003009	106.1991435	367.483	94.383588	366.408	-28.08798	0.00019	0.00009	366.40819	-28.08789	274127.061	8665664.209	79.757			
I	I-J	198	56	40	198.944444	-0.0003009	198.9441435	131.002	113.32773	120.29322	-51.87548	0.00007	0.00003	120.29329	-51.87545	274493.469	8665636.121	84.042			
J	J-A	115	36	8	115.602222	-0.0003009	115.6019213	210.136	408.92965	158.42227	138.05623	0.00011	0.00005	158.42238	138.05628	274613.762	8665584.246	86.443			
K	K-B	220	12	6	220.201667	-0.0003009	220.2013657	249.105	449.13102	249.07635	3.77793	0.00013	0.00006	249.07648	3.77799	274772.184	8665722.302	89.455			
L	L-A	107	11	32	107.192222	-0.0003009	107.1919213	75.552	376.32294	21.23396	72.50671	0.00004	0.00002	21.23500	72.50773	275021.260	8665726.080	92.840			
																	8665798.588				
					1800.00361		1800	2643.826		-0.00139	-0.00067			0	0						

AZ A-B =	333	5	27.5	=	333.090972
Nº VERT =	12				
PRES. INST =	0	0	6	=	0.00166667

ERROR ANG.	0.003611111
------------	-------------

ERROR LINEAL DE CIERRE	0.001543049
------------------------	-------------

AREA	m2
382801.204	

TOLERANCIA ANG.	0.005773503
-----------------	-------------

CORRECCION ANG.	-0.0003009
-----------------	------------

ERROR RELATIVO	1 = 1700000
1713377.94	

PERIMETRO	m
2643.8245	



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Tabla 4: Poligonal Cerrada

6.2 Nivelación

6.2.1 Libreta de Nivelación Poligonal

NIVELACION DE IDA				
PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
IGN	0.725	111.588	----	110.863
	0.075	109.500	2.163	109.425
	0.400	107.618	2.282	107.218
	0.619	106.027	2.210	105.408
	0.323	104.151	2.199	103.828
	0.601	102.641	2.111	102.040
	0.581	100.889	2.333	100.308
	0.268	98.836	2.321	98.568
	0.760	95.636	3.960	94.876
	0.773	94.360	2.049	93.587
	1.337	94.289	1.408	92.952
	1.535	94.426	1.398	92.891
V-A		94.522	0.830	93.596

Tabla 5: Nivelación de IDA IGN A V-A

NIVELACION DE REGRESO				
PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
V-A	0.841	94.436		93.596
	1.458	94.349	1.545	92.892
	1.446	94.398	1.397	92.953
	1.969	95.556	0.811	93.588
	3.852	98.728	0.680	94.877
	2.327	100.895	0.160	98.569
	2.270	102.577	0.588	100.308
	2.149	104.188	0.538	102.040
	2.169	105.996	0.361	103.828
	2.160	107.567	0.589	105.408
	2.276	109.493	0.350	107.218
	2.243	111.667	0.069	109.425
IGN			0.805	110.863

Tabla 6: Nivelación de REGRESO V-A A IGN



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ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

CONSORCIO PROYECTOS LIMA

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NIVELACION DE LA POLIGONAL				
PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
V-A	0.926	94.522		93.596
	1.079	94.14	1.461	93.061
	1.267	94.075	1.332	92.808
PC-01		92.931	1.144	92.931
V-B	1	93.951	1.124	92.951
V-C	1.741	93.323	2.369	91.582
V-D	0.895	93.196	1.022	92.301
	1.118	92.311	2.003	91.193
BM-04	0.994	91.16	2.145	90.166
	0.84	89.851	2.149	89.011
V-E	0.801	89.327	1.325	88.526
BM-01	0.771	88.069	2.029	87.298
	0.739	86.756	2.052	86.017
	0.82	85.385	2.191	84.565
V-F	0.822	84.184	2.023	83.362
	0.758	82.81	2.132	82.052
	1.387	82.137	2.06	80.75
V-G	1.142	81.438	1.841	80.296
	1.092	81.236	1.294	80.144
	1.185	81.002	1.419	79.817
	1.3	80.906	1.396	79.606
V-H	1.642	81.399	1.149	79.757
	1.801	82.088	1.112	80.287
	2.201	83.408	0.881	81.207
	2.077	84.549	0.936	82.472
	1.882	85.207	1.224	83.325
V-I	2.053	86.095	1.165	84.042
	1.975	87.132	0.938	85.157
V-J	1.652	88.095	0.689	86.443
	1.839	89.084	0.85	87.245
	1.883	90.11	0.857	88.227
V-K	1.568	91.023	0.655	89.455
	1.889	91.874	1.038	89.985
	1.931	93.014	0.791	91.083
	1.868	93.799	1.083	91.931
V-L	1.753	94.593	0.959	92.84
V-A		93.595	0.998	93.595

Tabla 7: Nivelación Cerrada de la Poligonal



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**ANEXO 2: Fichas BMs
Auxiliaries**

6.2.2 Libreta de Nivelación Bms Auxiliares

PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
V-E	0.801	89.203	----	88.526
BM-01			2.029	87.298

Tabla 8: Nivelación de IDA BM-01

PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
BM-01	1.869	89.167	----	87.298
V-E			0.640	88.527

Tabla 9: Nivelación de REGRESO BM-01

PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
V-B	1.192	94.143	----	92.951
	0.663	93.446	1.36	92.783
BM-02			1.483	91.963

Tabla 9: Nivelación de IDA BM-02

PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
BM-02	1.513	93.476	----	91.963
	1.322	94.105	0.693	92.783
V-B			1.154	92.951

Tabla 10: Nivelación de REGRESO BM-02

PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
V-D	0.895	93.196		92.301
	1.118	92.311	2.003	91.193
BM-04	1.243	91.409	2.145	90.166
	1.389	91.225	1.573	89.836
	1.163	90.877	1.511	89.714
BM-05	0.935	90.503	1.309	89.568
	1.580	90.917	1.166	89.337
BM-03	1.551	91.612	0.856	90.061
	1.774	92.356	1.030	90.582
	1.495	92.799	1.052	91.304
V-C'		91.579	1.220	91.579




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PUNTO	VISTA ATRÁS	ALTURA INSTR.	VISTA ADELANTE	COTA
BM-05	0.967	90.535		89.568
	1.144	90.038	1.641	88.894
BM-06	0.922	88.881	2.079	87.959
	1.041	88.126	1.796	87.085
	1.246	87.617	1.755	86.371
BM-07	1.088	87.046	1.659	85.958
	1.004	86.535	1.515	85.531
	1.426	86.509	1.452	85.083
BM-08	0.924	85.783	1.650	84.859
	1.044	84.917	1.910	83.873
	1.050	83.897	2.070	82.847
	1.322	83.288	1.931	81.966
BM-09		81.904	1.384	81.904
	1.610	83.388	1.510	81.778
	1.740	84.126	1.002	82.386
BM-10	2.001	85.347	0.780	83.346
	2.152	86.520	0.979	84.368
	1.678	87.011	1.187	85.333
BM-07'		85.960	1.051	85.960

Tabla 11: Nivelación Cerrada

6.2.3 Calculo de Error de Cierre

EC= ERROR DE CIERRE	
IGN IDA =	93.596
IGN VUELTA =	93.597
ERROR=	-0.001

Tabla 12: Error de Cierre



6.2.4 Error Máximo Permitido

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EMP= ERROR MAXIMO PERMISIBLE
$EMP=0.015 \times (L)^{1/2}$

L: Longitud en Kilómetros

EMP=ERROR MAXIMO PERMITIDO	
LONGITUD (KM)=	11.60
CONSTANTE K =	0.015
ERROR=	0.051

Tabla 13: Error Máximo

6.2.5 Compensación

COMPENSACION
EC / N

COMPENSACION	
N° ESTACIONES =	22
ERROR CIERRE =	-0.001
COMPENSACION =	-0.00005

Tabla 14: Compensación

6.2.6 Cotas Compensadas

PUNTO	COTA	COMPENSACION	COTA COMPENSADA
V-A	93.596	-0.00005	93.596
V-B	92.951	-0.00005	92.951
V-C	91.582	-0.00005	91.582
V-D	92.301	-0.00005	92.301
V-E	88.526	-0.00005	88.526
V-F	83.445	-0.00005	83.362
V-G	80.296	-0.00005	80.296
V-H	79.757	-0.00005	79.757
V-I	84.042	-0.00005	84.042
V-J	86.443	-0.00005	86.443
V-K	89.455	-0.00005	89.455
V-L	92.840	-0.00005	92.840
BM-01	87.296	-0.00005	87.298
BM-02	87.298	-0.00005	91.963
BM-03	90.061	-0.00005	90.061
BM-04	90.166	-0.00005	90.166
BM-05	89.568	-0.00005	89.568
BM-06	87.959	-0.00005	87.959
BM-07	85.958	-0.00005	85.958
BM-08	84.859	-0.00005	84.859
BM-09	81.904	-0.00005	81.904
BM-10	83.346	-0.00005	83.346

Tabla 15: Cotas compensadas



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PANEL FOTOGRAFICO

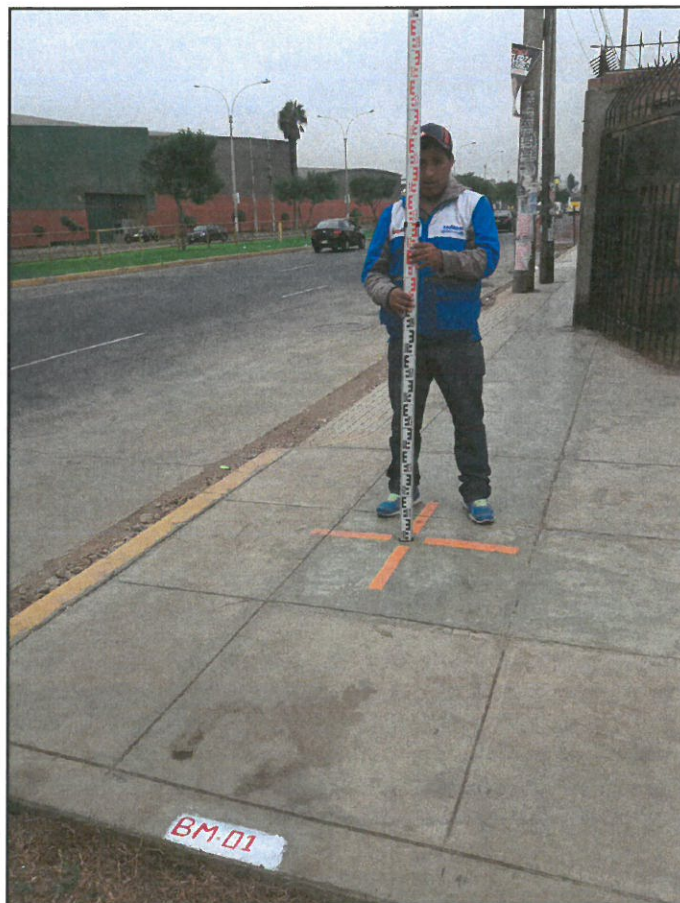
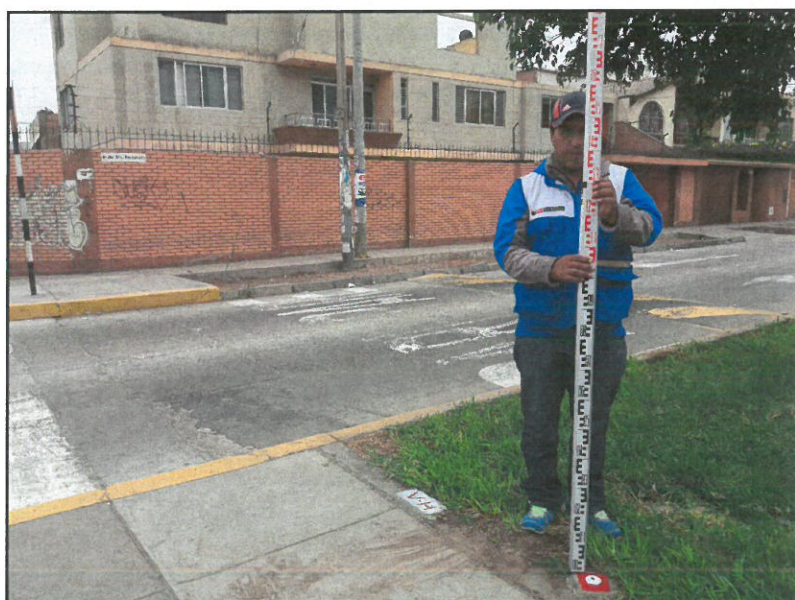


Ilustración 5: Nivelación del BM-01






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Ilustración 6: Levantando los vértices



Ilustración 7: Posicionamiento de los puntos geodésicos




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ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

Ilustración 8: Lectura de los Vértices



Ilustración 9: Ubicación de Placas de Bronce V-A




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ING. ELIAS MUGOLLON ESCOBAR
DIRECTOR DE PROYECTO

CONSORCIO PROYECTOS LIMA



Ilustración 10: Placa de Bronce V-A

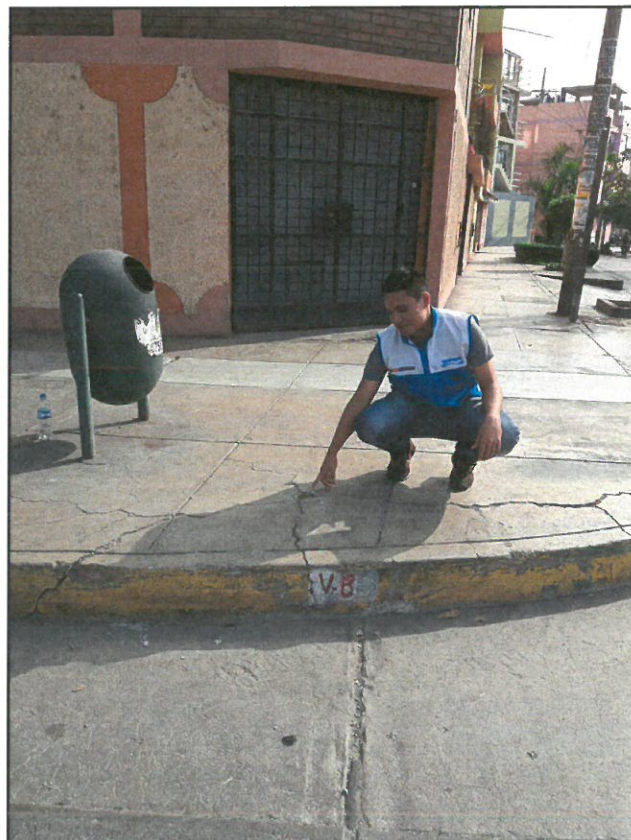


Ilustración 11: Ubicación de Placas de Bronce V-B




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Ilustración 12: Placa de Bronce V-B



Ilustración 13: Lectura de los límites de propiedad



[Signature]
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DIRECTOR DE PROYECTO
CONSORCIO PROYECTOS LIMA

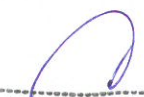


Ilustración 14: Levantamiento desde el vértice V-L

8 ANEXOS

8.1 Fichas Técnicas




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ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

CONSORCIO PROYECTOS LIMA



INSTITUTO GEOGRAFICO NACIONAL

DIRECCION DE GEODESIA

DESCRIPCION DE MARCA DE COTA FIJA (BM)

DEPARTAMENTO:	CARACTERISTICAS:	DESIGNACION:
LIMA	DISCO DE BRONCE DE 9 CM DE DIAMETRO	M-AU 4
PROVINCIA:	ESTABLECIDA POR:	ELEVACION (M)
LIMA	INSTITUTO GEOGRAFICO NACIONAL	110.8625
LÍNEA:	CÓDIGO DE HOJA:	ORDEN:
LIMA - METROPOLITANA	Plano de Lima Esc. 1/25 000 Hoja N° 5	1 er
TRAMO:	ESTAMPADO:	DATUM:
La Marina - Alfonso Ugarte	M-AU-4-2001	S.N.M.M

CROQUIS



DESCRIPCIÓN:

A lo largo de la Av. Venezuela en la intersección con la Av. Tingo María, partiendo desde el Ovalo Juan Pablo II, la marca al Este a 5.20 Km. Incrustada l sobre la berma central de la Av. Venezuela, al costado Sur a 11.00 m del eje de la avenida.

MARCA DE COTA FIJA

Es un disco de bronce de 9 cm de diámetro incrustada sobre la berma central de 7.45 m de largo por 5.25 m de ancho y a 0.14 m. Sobre el nivel de la pista.

REFERENCIAS:

1. Desde un monumento del Club de Leones de Breña, con azimut magnético 228° esta a 5.15 m.
2. Desde un poste de semáforo, con azimut magnético 84° esta a 4.60 m.
3. Desde un poste de alumbrado público, con azimut magnético 140° esta a 4.50 m.

El terreno alrededor es plano urbanizado.



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CONSORCIO PROYECTOS LIMA

ING. ELIAS MAGOLLON ESCOBAR
DIRECTOR DE PROYECTO
CONSORCIO PROYECTOS LIMA

Anexo 1: Fichas IGN

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-A	1	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERÍSTICAS		
UBICADO EN LA AV. ALBORADA			PLACA DE BRONCE SOBRE BASE DE CONCRETO		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
275042.4947	8665798.5876	93.596			



Descripción:

Se encuentra en la berma central de la av. Alborada, entre un árbol y una caja de conexión de agua.

Método:

Nivelación geométrica



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CONSORCIO PROYECTOS LIMA

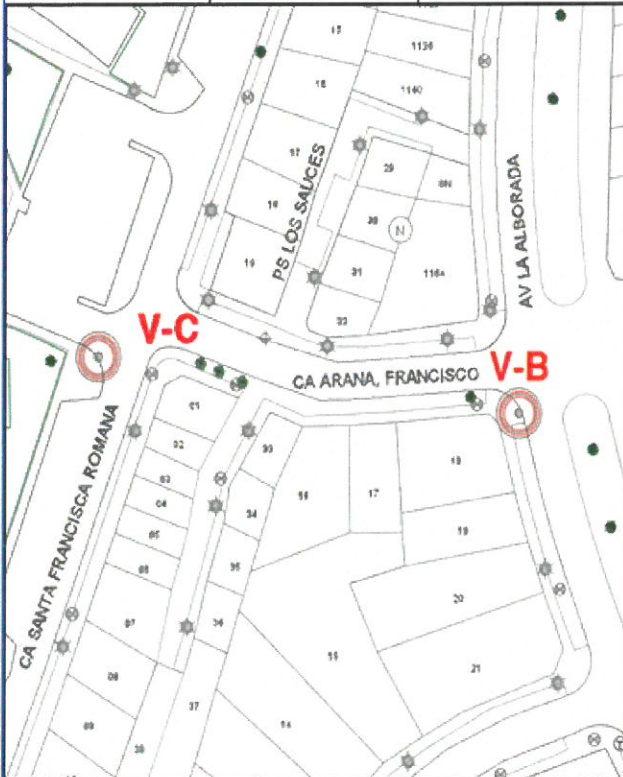
ING. ELIAS MUGOLLON ESCOBAR
DIRECTOR DE PROYECTO
CONSORCIO PROYECTOS LIMA

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-B	2	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERÍSTICAS		
UBICADO EN EL CRUCE AV. ALBORADA CON CA. FRANCISCO ARANA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274936.0300	8666008.3590	92.951			



Descripción:

Ubicada sobre la vereda, frente al tacho de basura.

Método:

Nivelación geométrica

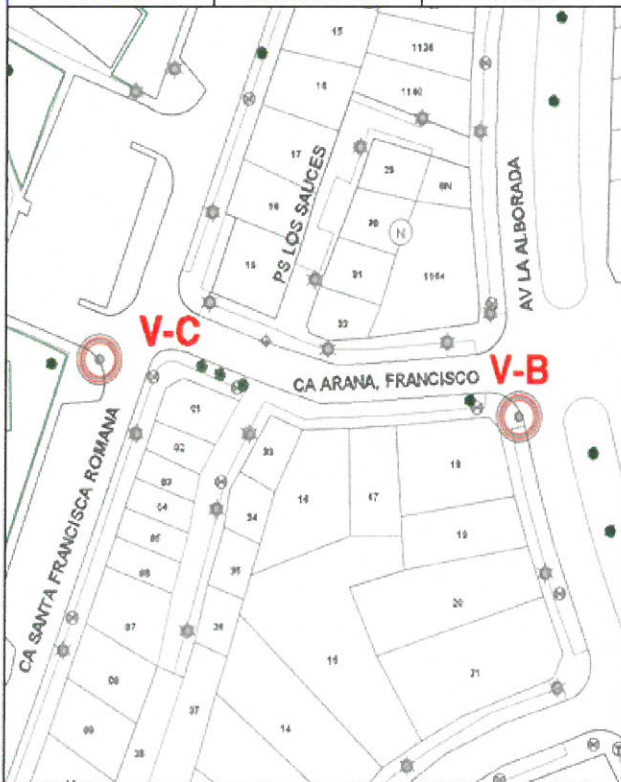
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FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-C	3	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADA EN EL CRUCE DE LA CA. SANTA FRANCISCA ROMANA CON CA. FRANCISCO ARANA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274863.4060	8666017.1950	91.582			



Descripcion:

Ubicado al borde de la pista, en el limite con la vereda.

Metodo:

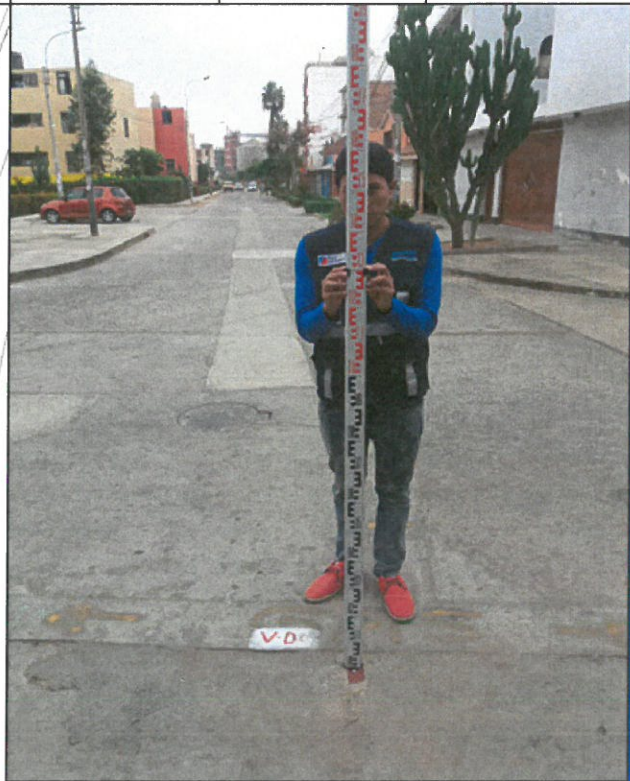
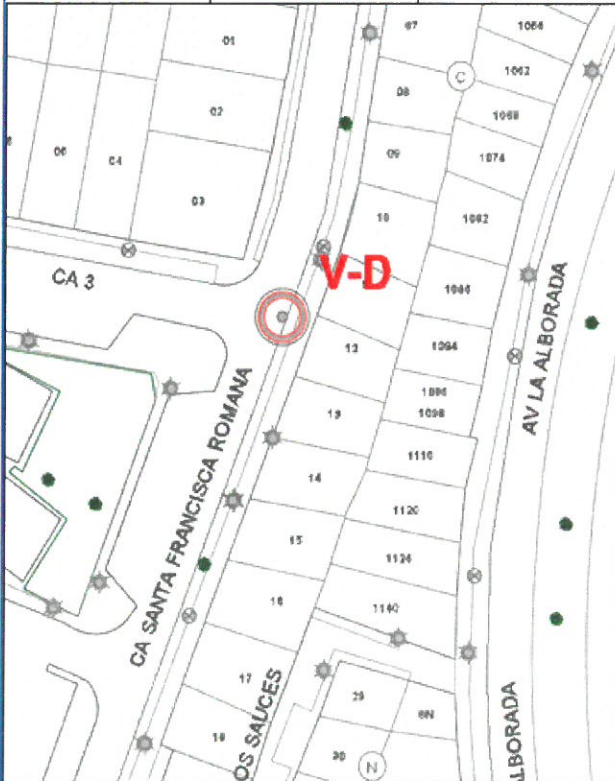
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-D	4	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADA EN EL CRUCE DE LA CA. SANTA FRANCISCA ROMANA CON CA. 03			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274902.0680	8666098.4370	92.3010			



Descripcion:

Incrustado en la pista, junto a la linea de gas.

Metodo:

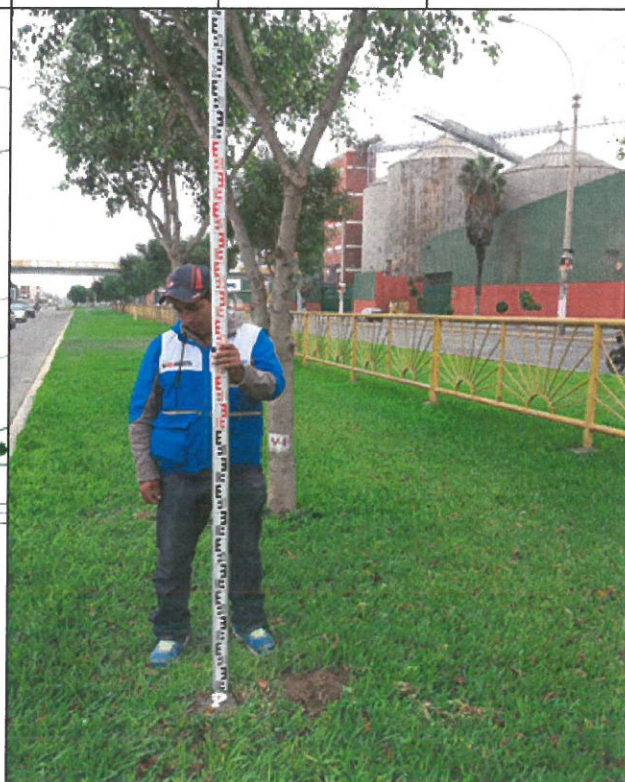
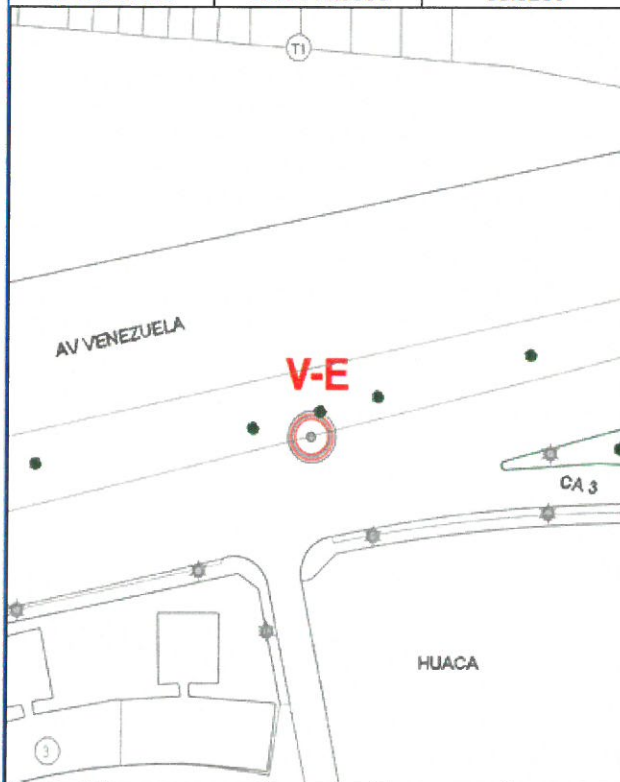
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-E	5	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN LA AV. VENEZUELA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274608.8480	8666144.5860	88.5260			



Descripcion:

Ubicado en la berma central de la av. Venezuela frente a la fabrica Donofrio.

Metodo:



Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-F	6	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN LA AV. VENEZUELA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274260.8180	8666064.9120	83.3620			

Descripcion:

Ubicado en la berma central de la av. Venezuela frente a la fabrica Molitalia

Metodo:

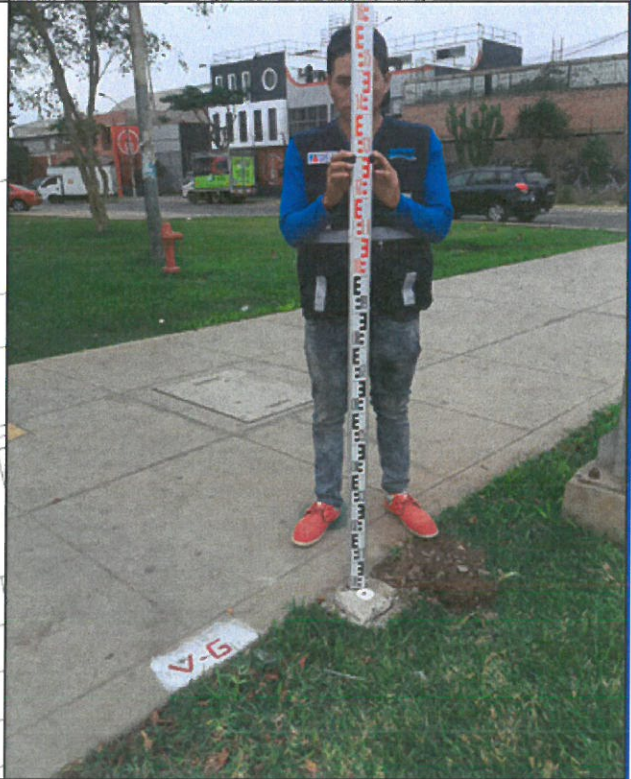
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-G	7	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN EL CRUCE DE LA AV. VENEZUELA Y CA. STA BERNARDITA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274056.5490	8666001.2710	80.2960			



Descripción:

Ubicado en la berma central de la Calle Santa Bernardita, al borde de la vereda.

Método:

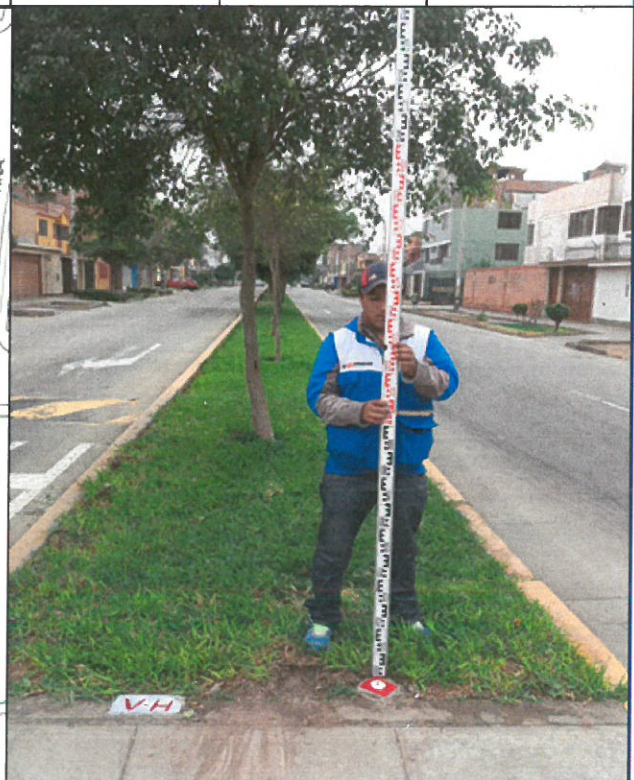
Nivelación geométrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-H	8	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERÍSTICAS		
UBICADO EN EL CRUCE DE LA CA. STA MARIANA PAREDES CON CA. SANTA BERNARDITA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274127.0610	8665664.2090	79.7570			



Descripción:

En la berma central de la ca. Santa Bernardita, al borde de la vereda.

Método:

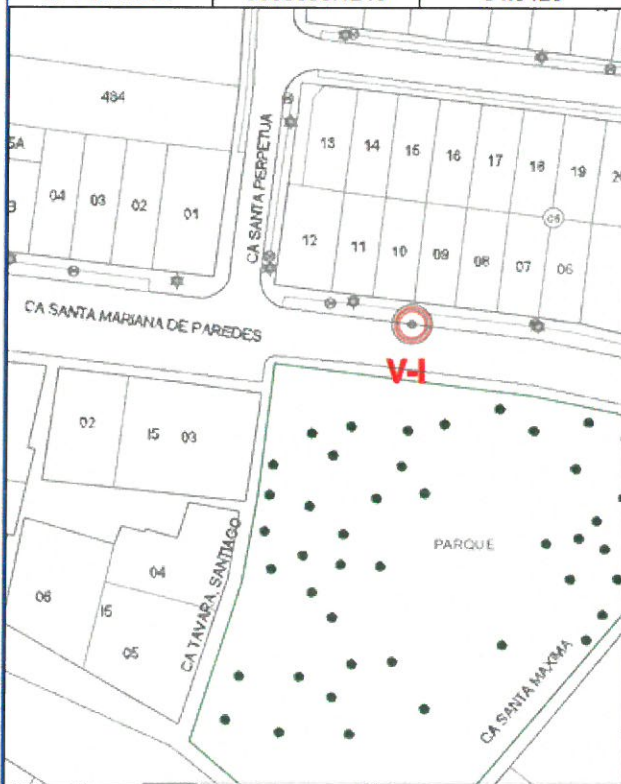
Nivelación geométrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-I	9	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN LA CA. SANTA MARIANA DE PAREDES			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274493.4690	8665636.1210	84.0420			



Descripcion:

Ubicado al borde la pista, frente al parque. En el pie de una base de concreto que rodea una jardin.

Metodo:

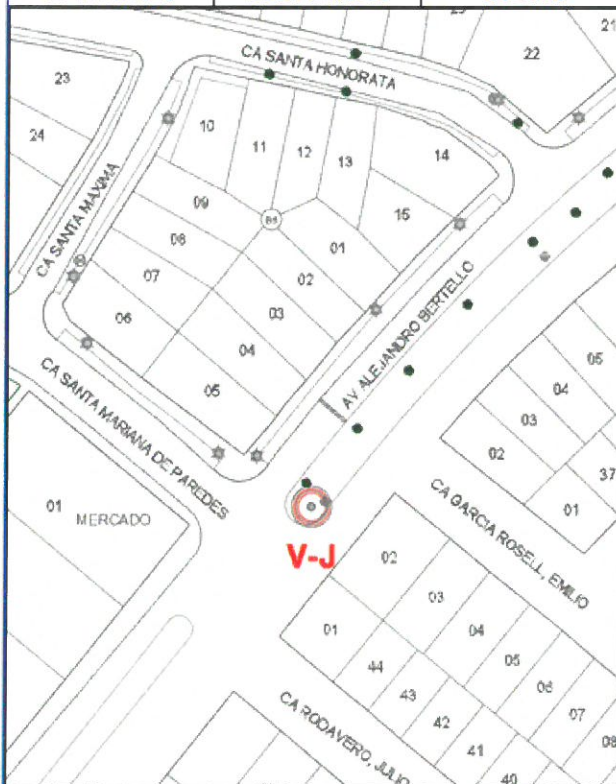
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-J	10	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN EL CRUCE DE LA CA. SANTA MARIANA PAREDES CON CA. VALENZUELA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274613.7620	8665584.2460	86.4430			



Descripción:

Ubicada en la berma central de la calle. Angel Valenzuela, en el borde de la vereda.

Método:

Nivelación geométrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-K	11	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN LA CALLE ANGEL VALENZUELA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274772.1840	8665722.3020	89.4550			




Descripcion:

Se encuentra frente al colegio Simon Bolivar, incrustado en la vereda.

Metodo:

Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO - C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
V-L	12	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN EL CRUCE DE AV. ALEJANDRO BERTELLO CON AV. ALBORADA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
275021.2600	8665726.0800	92.8400			



Descripción:

En la berma central de la Av. Alejandro Bertello a 1.5 m del letrero peatonal.

Metodo:

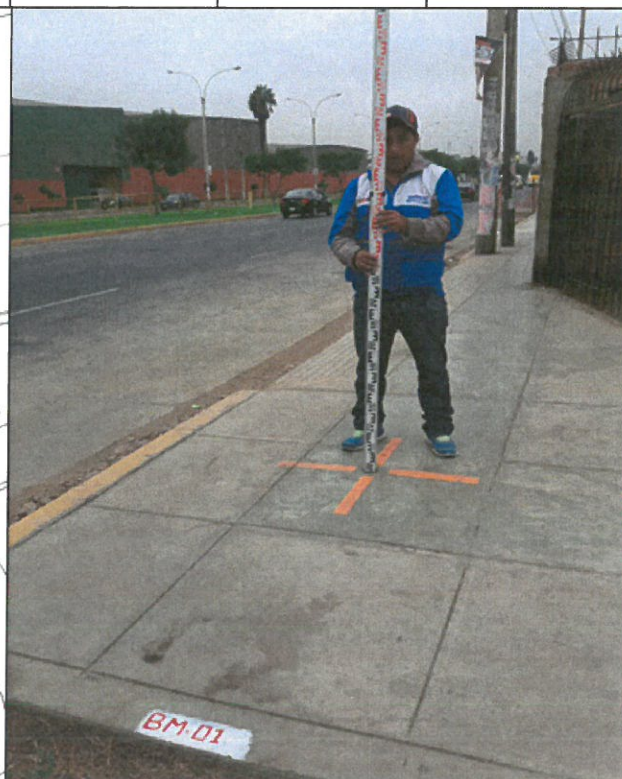
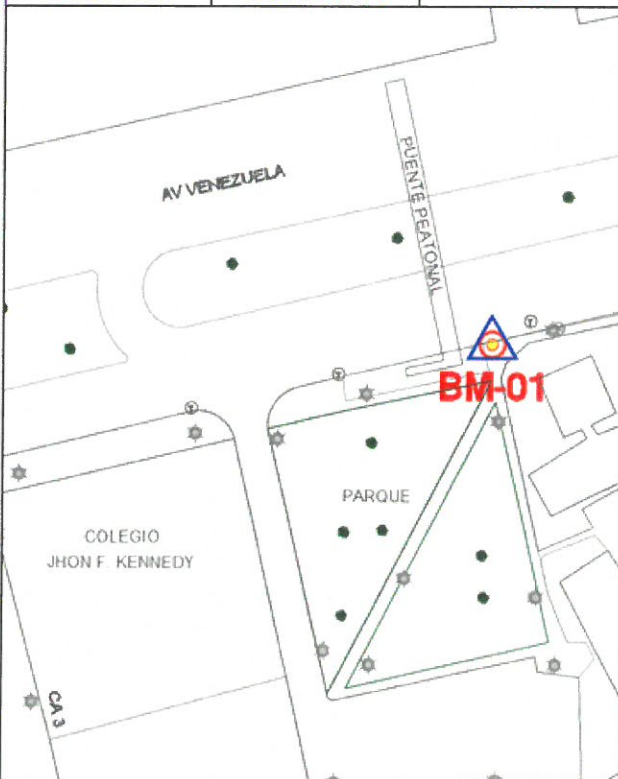
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-01	1	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
EN LA AV. VENEZUELA, FRENTE A LA FABRICA DONOFRIO			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274522.3890	8666109.8170	87.298			



Descripcion:

Placa de bronce ubicada sobre la vereda debajo de puente peatonal.

Metodo:

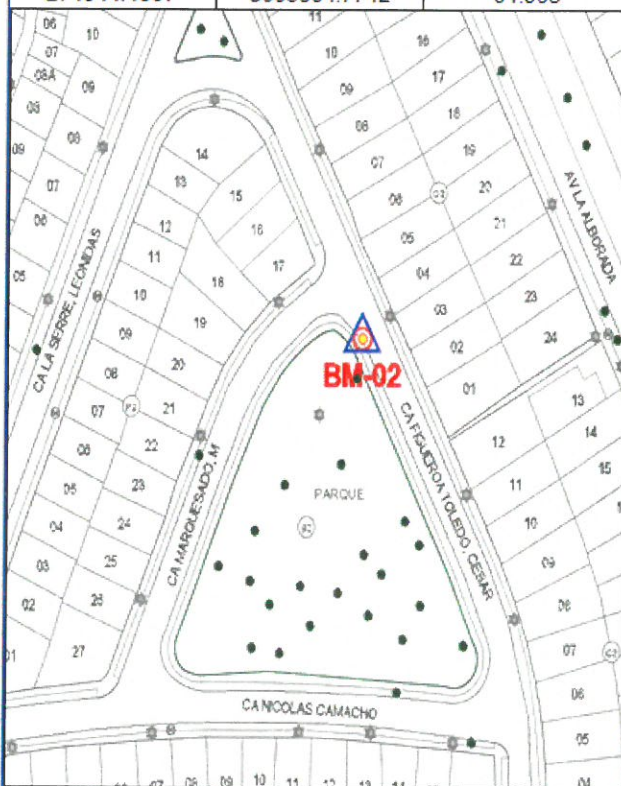
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-02	2	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN LA CALLE FIGUEROA TOLEDO			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274944.4607	8665864.7742	91.963			



Descripción:

Se encuentra al borde de la pista, frente al parque.

Metodo:

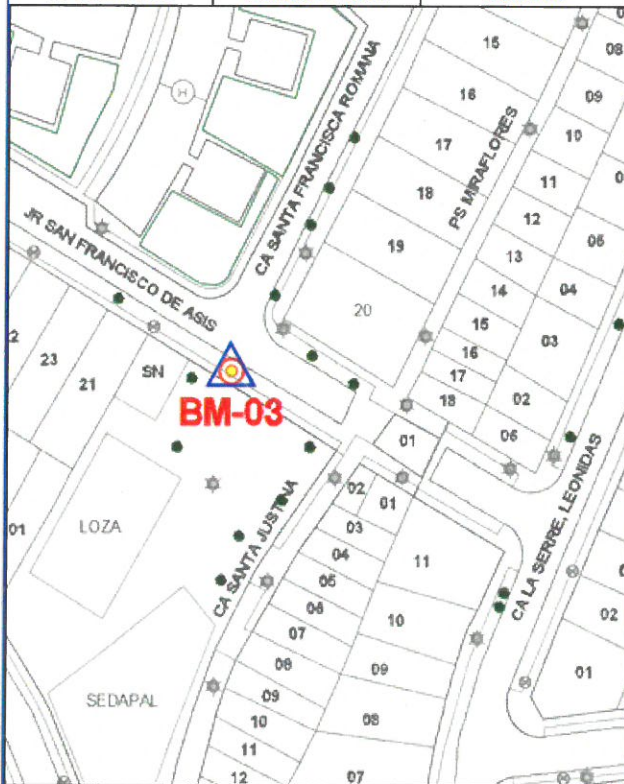
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-03	3	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN EL JR SAN FRANCISCO DE ASIS			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274800.3660	8665854.4640	90.0610			



Descripcion:

Ubicada al borde de la vereda, frente a los juegos recreativos.

Metodo:

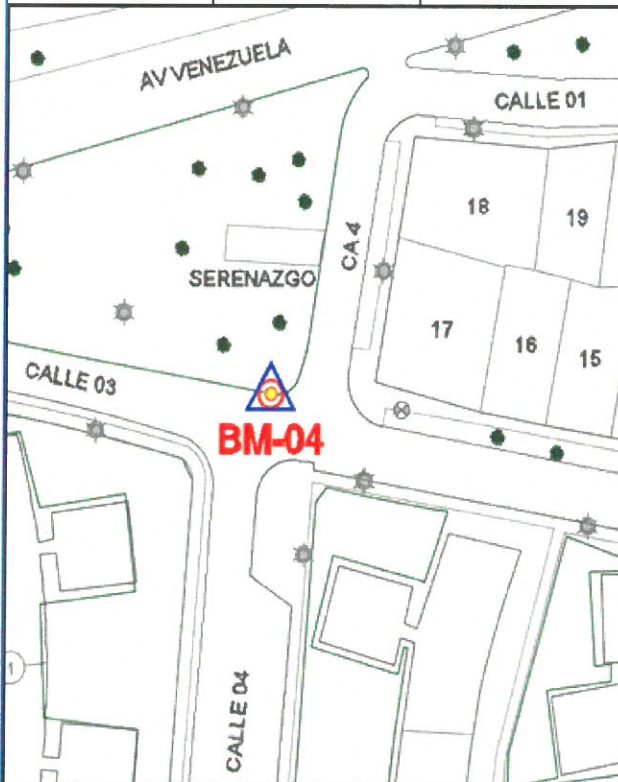
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-04	4	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN EL CRUCE DE LA CALLE 03			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274741.1813	8666130.4743	90.1660			



Descripcion:

Ubicado al borde de la berma, frente a la caseta de serenazgo.

Metodo:

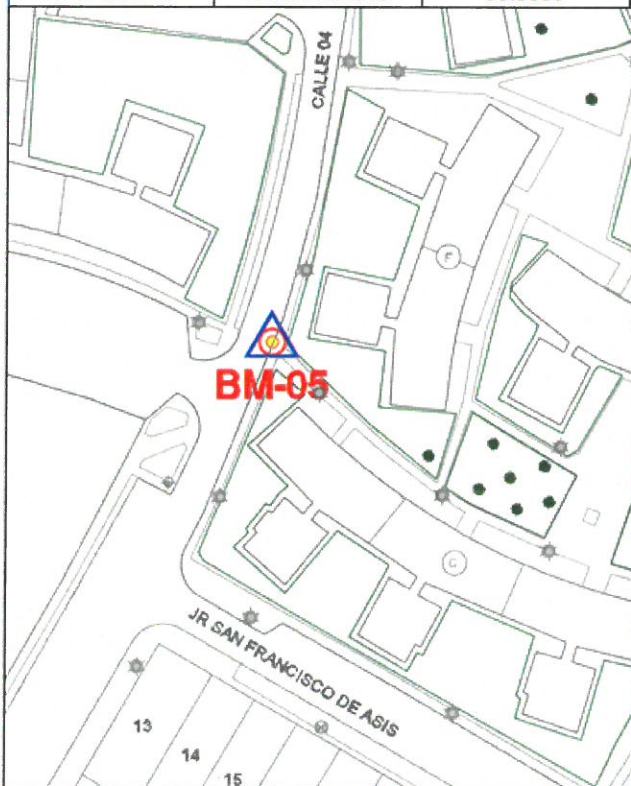
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-05	5	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN EL JR. SAN FRANCISCO DE ASIS			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274718.8860	8665958.3940	89.5680			



Descripción:

Ubicada al borde de la vereda, frente al pasaje.

Método:

Nivelación geométrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-06	6	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERÍSTICAS		
UBICADA EN LA CALLE SANTA JUSTINA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274662.6540	8665871.4230	87.9590			



Descripción:

En el borde de la pista, entre la pista y vereda, frente al bote de basura.

Método:

Nivelación geométrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-07	7	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERÍSTICAS		
UBICADA EN LA CALLE SANTA JUSTINA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274491.1261	8665918.2839	85.9580			



Descripción:

Ubicada a 2.66 metros del borde la pista.

Método:

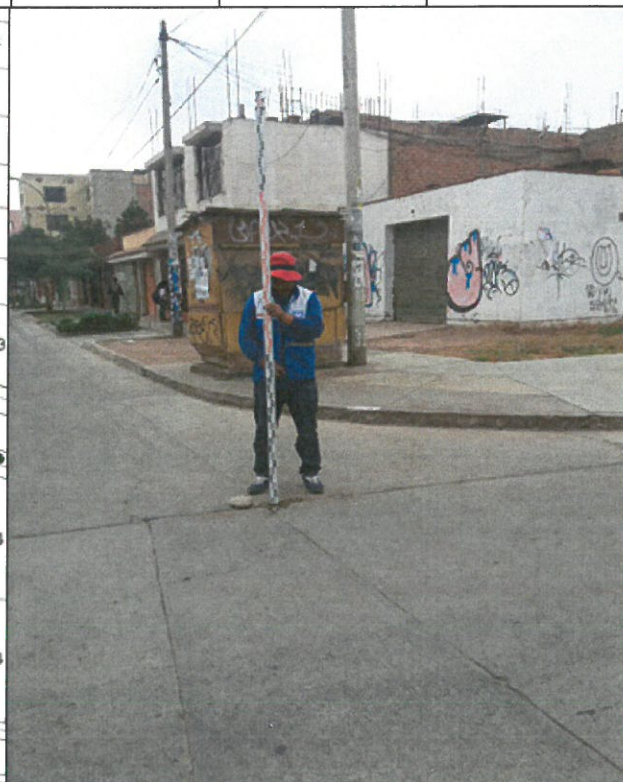
Nivelación geométrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-08	8	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADA EN EL CRUCE DE LA CA. SANTA PERPETUA CON CA. FRANCISCA ROMANA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274471.6010	8665754.7720	84.8590			



Descripción:

Fierro de 1/2" anclado en la pista de concreto rígido.

Método:

Nivelación geométrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-09	9	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN EL CRUCE DE CA. SANTA FRANCISCA ROMANA CON CA.SANTA GERTRUDES.			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274277.4777	8665779.5467	81.9040			



Descripcion:

Ubicada al borde de la pista y la vereda, frente a la Huaca.

Metodo:

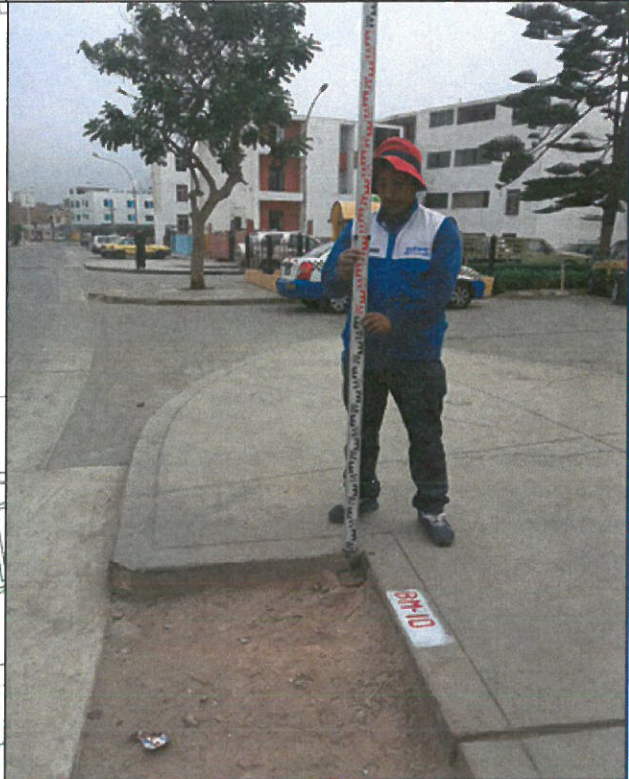
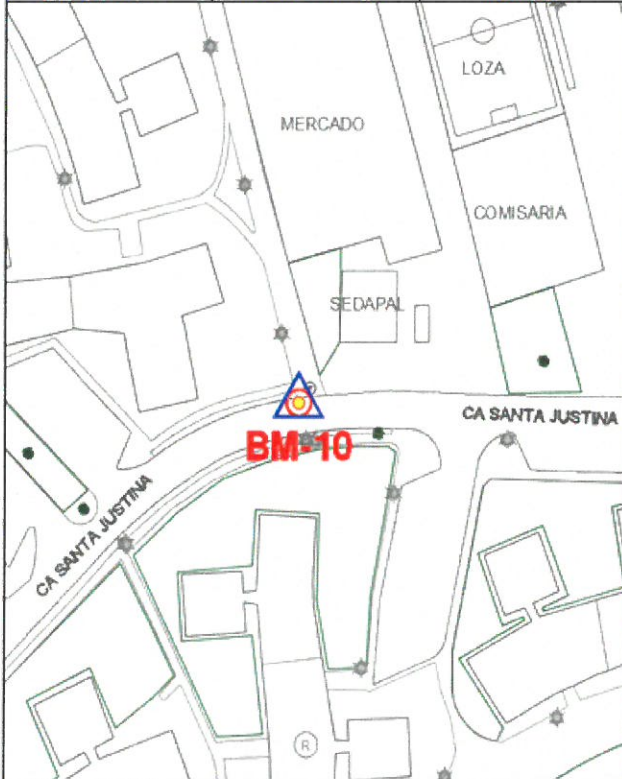
Nivelacion geometrica

FICHA TECNICA

SERVICIO DE CONSULTORÍA DE OBRA PARA LA ELABORACIÓN DEL ESTUDIO DEFINITIVO Y EXPEDIENTE TÉCNICO DE OBRA: "CAMBIO DE REDES DE ALCANTARILLADO – C.H. PALOMINO CERCADO DE LIMA".

ESTACION DE CONTROL HORIZONTAL Y VERTICAL

NOMBRE	NUMERO	LOCALIDAD	ESTABLECIDA POR		
BM-10	10	C.H. PALOMINO	CONSORCIO PROYECTOS LIMA		
UBICACIÓN			CARACTERISTICAS		
UBICADO EN LA CALLE SANTA JUSTINA			FIERRO DE 1/2" EN BASE DE CONCRETO.		
COORDENADAS		ELEVACION	PROYECCION	DATUM	ZONA
ESTE (X)	NORTE (Y)	(msnm)	UTM	WGS-84	18 SUR
274353.8411	8665913.2466	83.3460			



Descripcion:

Se encuentra en la esquina de la vereda que dibuja el martillo de la misma.

Metodo:

Nivelacion geometrica

8.2 Certificados De Calibración



Julio Pacheco Ramos
F-12546

CONSORCIO PROYECTOS LIMA

ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

Survey Rental & Sales S.A.C.

Dirección: Dos de Mayo #1664 - San Isidro
Teléfono: (511) 204-6430 / ENTEL: 993 526 869
Servicio Técnico: (511) 204-6440
Movistar RPM: #952 534 114
Sitio Web: www.surveyrental.net

San Isidro 19. Abril 2016

N° 16087-16

CERTIFICADO DE CALIBRACIÓN

A petición de ARCE HUANCACURI RUDY GERSON, la empresa SURVEY RENTAL & SALES SAC, le expide el presente Certificado de Calibración por un (01);

NIVEL AUTOMATICO MARCA GEOMAX MODELO ZAL132

Con N° de serie 303322, dicho instrumento ha sido revisado y calibrado todos los puntos en nuestro laboratorio y se encuentra en perfecto estado de funcionamiento de acuerdo a los estándares internacionales establecidos (DIN18723).

Equipo de calibración utilizado:

Equipo /Modelo	Marca	Serie
GEOMAX ZOOM 35 PRO 1"	GEOMAX	2832282

Resultados:

Valor de Patrón	Valor Obtenido	Precisión	Error Medido
90° 00' 00"	90° 00' 00"	2.0mm	0.0mm

Certificado Por:
Ing. José Quispe Peña
Supervisor de Laboratorio

Firma:
Survey Rental & Sales
IVAN VEGAS
Servicio Técnico

Fecha Emisión:
19. Abril 2016
Fecha Vencimiento:
19. Octubre 2016

Your authorized Distributor of

GEOMAX
Part of Hexagon Group



Julio Pacheco Ramos
F-12549

CONSORCIO PROYECTOS LIMA

ING. ELIAS MUGOLLON ESCOBAR
DIRECTOR DE PROYECTO

Survey Rental & Sales S.A.C.

Dirección: Dos de Mayo #1664 - San Isidro
Teléfono: (511) 204-6430 Claro RPC: 993526869
Servicio Técnico: (511) 204-6440
Nextel: 51*814*7171 Movistar RPM: #952534114
Sitio Web: www.surveymental.net

N° 16072-16

San Isidro 15. Abril 2016

CERTIFICADO DE CALIBRACIÓN

A petición de ARCE HUANCACURI RUDY GERSON, la empresa SURVEY RENTAL & SALES SAC, le expide el presente Certificado de Calibración por un (01);

ESTACION TOTAL MARCA TOPCON MODELO GTS236

Con N° de serie 285435, dicho instrumento ha sido revisado y calibrado todos los puntos en nuestro laboratorio y se encuentra en perfecto estado de funcionamiento de acuerdo a los estándares internacionales establecidos (DIN18723).

Equipo de calibración utilizado:

Equipo /Modelo	Marca	Serie
GEOMAX ZOOM 35 PRO 1'	GEOMAX	2832282

Resultados:

Valor de Patrón	Valor Obtenido	Precisión Angular	Error Medido
VR: 360° 00' 00"	360° 00' 01"	6"	1"
HZ: 180° 00' 00"	180° 00' 01"	6"	1"

Certificado Por:

Ing. José Quispe Peña

Supervisor de Laboratorio

Firma:

JOSE MANUEL QUISPE RIVERA
JEFE DE SERVICIO TECNICO

Fecha Emisión:

15. Abril 2016

Fecha Vencimiento:

15. Octubre 2016

Your authorized Distributor of

GEOMAX
Part of Hexagon Group

8.3 Relación de Planos

NOMBRE	CODIGO	Nº LAMINAS
POLIGONAL CERRADA	TOP-01	1
NIVELACION DE BMS	TOP-02	1
CARTOGRAFIA	TOP-03	09

Tabla 16: Planos

8.4 Descripción De Puntos Topográficos

A	CAJA DE AGUA
BZ	BUZON DE DESAGUE
BZT	BUZONETA
D	CAJA DE DESAGUE
ESQ	ESQUINA
GRF	GRIFO
LP	LIMITE DE PROPIEDAD
PARQ	PARQUE
PC	PUNTO DE CAMBIO
PIST	PISTA
PL	POSTE DE LUZ
PM	POSTE DE MEDIA TENSION
PT	POSTE DE TELEFONO
ARB	ARBOL
RAMP	RAMPA
VALV	VALVULA
VER	VEREDA
R	RELLENO
REJ	CERCO DE REJAS
PZT	POZO A TIERRA
PARAD	PARADERO
ESC	ESCALERA
COL	COLUMNA
PA	PARED
CAST	CASETA
CJL	CAJA DE LUZ

Tabla 17: Descripción de Puntos




Julio Pacheco Ramos
F-12549

CONSORCIO PROYECTOS LIMA

ING. ELIAS MEGOLLON ESCOBAR
DIRECTOR DE PROYECTO

CONSORCIO PROYECTOS LIMA

**ANEXO 3: Libreta
Estación Total**

8.5 Data De Levantamiento

PUNTO	ESTE	NORTE	COTA	DESCRIP.
1	275042.49	8665798.6	93.596	A
2	274936.03	8666008.4	92.951	B
3	274863.41	8666017.2	91.582	C
4	274902.07	8666098.4	92.301	D
5	274608.85	8666144.6	88.526	E
6	274260.82	8666064.9	83.445	F
7	274056.55	8666001.3	80.296	G
8	274127.06	8665664.2	79.757	H
9	274493.47	8665636.1	84.042	I
10	274613.76	8665584.2	86.443	J
11	274772.18	8665722.3	89.455	K
12	275021.26	8665726.1	92.840	L
15	274877.6	8666031.1	91.706	PIST
16	274870.35	8666028.9	91.621	PIST
17	274877.47	8666026.5	91.665	PIST
18	274868.25	8666025.3	91.591	PIST
19	274880.4	8666024	91.771	PIST
20	274864.71	8666024	91.593	PIST
21	274859.68	8666025.7	91.556	PIST
22	274882.59	8666044.6	91.826	PIST
23	274874.99	8666041.1	91.743	PIST
24	274875.94	8666044.8	91.792	PIST
25	274874.84	8666048	91.77	PIST
26	274875.04	8666054.9	91.805	PIST
27	274881.58	8666058.8	91.836	PIST
28	274879.04	8666055.5	91.838	PIST
29	274887.66	8666058	91.969	PIST
30	274878.3	8666042.4	91.769	BZ
31	274889.68	8666080.5	92.052	PIST
32	274892.49	8666088.3	92.147	PIST
33	274893.84	8666091.7	92.186	PIST
34	274901.07	8666093.8	92.253	PIST
35	274895.52	8666096.4	92.149	PIST
36	274899.45	8666098.3	92.283	BZ
38	274894.43	8666065.1	92.214	LP
39	274895.17	8666073.3	92.116	PL
40	274894.66	8666072.3	92.233	VERD
41	274889	8666057.5	92.118	PT

PUNTO	ESTE	NORTE	COTA	DESCRIP.
2454	274705	8665962.5	89.143	VERD
2455	274710.92	8665960.1	89.349	VERD
2456	274710.06	8665957.7	89.365	VERD
2457	274706.22	8665962	89.31	VERD
2458	274706.98	8665961.5	89.328	PL
2459	274721.66	8666002.1	89.675	PC
2460	274703.43	8665950	89.149	PIST
2461	274706.92	8665946.3	89.219	PIST
2462	274705.95	8665940.6	89.198	PIST
2463	274702.63	8665933.7	89.124	PIST
2464	274697.25	8665936.4	89.029	VERD
2465	274702.11	8665935.7	89.294	PMT
2466	274707.12	8665948.2	89.244	LGAS
2467	274713.47	8665945.3	89.289	LGAS
2468	274714.23	8665940.9	89.41	LP
2469	274710.53	8665933.3	89.359	PL
2470	274707.96	8665930.9	89.169	PIST
2471	274707.27	8665931.4	89.155	LGAS
2472	274709.06	8665930.1	89.228	VERD
2473	274705.14	8665925.4	89.086	PIST
2474	274704.43	8665920.9	89.04	PIST
2475	274685.09	8665920	88.955	LP
2476	274698.77	8665919.4	88.952	BZ
2477	274686.24	8665918.9	88.872	VERD
2478	274687.11	8665918	88.823	PIST
2479	274699.48	8665912.4	88.895	PIST
2480	274696.34	8665909.8	88.816	PIST
2481	274697.11	8665905.9	88.943	PL
2482	274670.31	8665894.6	88.554	LP
2483	274688.53	8665888.5	88.642	LP
2484	274671.77	8665894.2	88.452	VERD
2485	274685.07	8665890.2	88.479	PIST
2486	274673.11	8665893.5	88.397	PIST
2487	274684.29	8665890.7	88.479	LGAS
2488	274660.4	8665877.4	88.208	ESQ
2489	274668.1	8665873.2	88.151	PIST
2490	274674.67	8665872.4	88.188	PIST
2491	274673.25	8665867.6	88.145	PIST

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42	274891.29	8666056.6	92.14	LP
43	274887.15	8666059.2	91.933	LGAS
44	274888.15	8666048.2	92.057	LP
45	274884.99	8666039.7	91.978	LP
46	274882.74	8666039.9	91.961	PL
47	274882.51	8666040.1	91.958	VERD
48	274878.11	8666035.4	91.735	LGAS
49	274877.15	8666031.7	91.73	LGAS
50	274882.35	8666026	91.892	PL
51	274880.76	8666028.2	91.898	ESQ
52	274877.97	8666018.4	91.687	PIST
53	274879.88	8666024.2	91.752	PIST
54	274891.21	8666020.1	91.74	PIST
55	274890.01	8666014.1	91.763	PIST
56	274904.65	8666016.2	92.248	PIST
57	274901.64	8666010.3	92.261	PIST
58	274903.93	8666012.3	92.269	BZ
59	274917.55	8666017.1	92.441	PIST
60	274923.47	8666017	92.517	LGAS
61	274904.59	8666015.8	92.272	LGAS
62	274903.9	8666011.2	92.281	LGAS
63	274902.5	8666018.8	92.503	VERD
64	274902.86	8666020.2	92.536	LP
65	274881.51	8666018	91.707	LGAS
66	274902.8	8666018.8	92.503	PL
67	274877.99	8666014.3	91.832	ESQ
68	274899.68	8666021.2	92.449	ESQ
69	274874.97	8666012.9	91.789	ESQ
70	274899.14	8666022.5	92.519	ESQ
71	274893.83	8666023.4	92.224	ESQ
72	274872.73	8666014.5	91.768	PT
73	274892.13	8666020	91.812	PMT
74	274873.09	8666020.9	91.632	LGAS
75	274890.27	8666012.4	91.95	BZ
76	274887.16	8666012.8	91.863	PT
77	274873.82	8666018.4	91.595	PIST
78	274872.19	8666016.5	91.587	PIST
79	274870.03	8666019.7	91.598	BZ
80	274869.75	8666005.7	91.642	PL
81	274863.99	8666015.5	91.558	PIST
82	274863.54	8666010.8	91.506	PIST
83	274862.56	8665990.9	91.372	PIST

2492	274665	8665870.7	88.061	PIST
2493	274672.99	8665881.4	88.24	PIST
2494	274672.07	8665881.9	88.239	VERD
2495	274670.81	8665881.5	88.413	VERD
2496	274671.09	8665880.7	88.402	PMT
2497	274667.83	8665874.4	88.099	VERD
2498	274664.48	8665871.7	88.035	VERD
2499	274667.54	8665865.2	88.129	BZ
2500	274662.11	8665872.8	88.168	PMT
2501	274660.75	8665871.1	87.926	PIST
2502	274661.11	8665871.9	87.961	VERD
2503	274663.56	8665879.7	88.235	VERD
2504	274657.96	8665873.5	87.93	VERD
2505	274658.85	8665874.9	88.125	VERD
2506	274667.77	8665884.3	88.261	PIST
2507	274662.93	8665870.6	87.972	PC BM6
2508	274660.84	8665875.6	88.204	PC
2509	274698.45	8665945.8	88.991	ESQ
2510	274689.07	8665949.2	88.809	PIST
2511	274691.78	8665926	88.957	PC
2512	274726.55	8665950.1	89.539	PL
2513	274727.33	8665949.1	89.409	VERD
2514	274728.5	8665950.1	89.412	VERD
2515	274736.35	8665942.7	89.551	BZ
2516	274737.16	8665942.3	89.428	VERD
2517	274736.61	8665940.8	89.463	VERD
2518	274746.56	8665933.6	89.61	PL
2519	274746.93	8665934.8	89.494	VERD
2520	274746	8665933.6	89.545	VERD
2521	274745.71	8665934.5	89.582	PC
2522	274705.84	8665923.3	89.271	ESQ
2523	274704.78	8665911.7	88.931	PIST
2524	274706.57	8665917.7	89	PIST
2525	274715.68	8665913.9	89.195	PL
2526	274700.69	8665909.5	89.073	ESQ
2527	274715.13	8665909.7	89.018	BZ
2528	274709.48	8665904.6	89.128	LP
2529	274717.93	8665911.1	89.028	PIST
2530	274720.93	8665912.9	89.033	VERD
2531	274721.69	8665914.3	89.175	VERD
2532	274716.42	8665900.6	89.234	LP
2533	274723.35	8665896.6	89.317	LP

84	274858.12	8665996.2	91.344	PIST
85	274858.1	8665985.7	91.309	BZ
86	274849.25	8665972.4	91.103	PIST
87	274854.58	8665969.5	91.145	PIST
88	274846.75	8665966.3	91.072	PIST
89	274840.98	8665954	90.94	PIST
90	274839.83	8665948.4	90.887	PIST
91	274844.67	8665944.2	90.882	PIST
92	274840.65	8665943.3	90.828	BZ
93	274836.16	8665925	90.659	PIST
94	274830.9	8665927.3	90.632	PIST
95	274823.69	8665912	90.412	PIST
96	274828.64	8665908.7	90.51	PIST
97	274833.54	8665910.1	90.7	LP
98	274835.55	8665914.1	90.741	LP
99	274833.43	8665915.2	90.732	VERD
100	274837.41	8665918.1	90.824	LP
101	274832.73	8665919.3	90.57	LGAS
102	274844.74	8665934.5	91.004	LP
103	274842.07	8665928.6	90.902	LP
104	274844.06	8665938.8	90.976	PL
105	274844.33	8665939.8	90.997	VERD
106	274841.34	8665939.1	90.826	LGAS
107	274848.18	8665942.8	91.041	LP
108	274851.59	8665951.2	91.133	LP
109	274854.91	8665959.5	91.213	LP
110	274858.13	8665968	91.307	LP
111	274857.33	8665972.2	91.336	PL
112	274855.95	8665969	91.285	VERD
113	274858.99	8665977.3	91.37	PT
114	274853.96	8665970.4	91.156	LGAS
115	274861.29	8665976.4	91.406	LP
116	274866.36	8665989.8	91.509	LP
117	274864.67	8665985.4	91.484	LP
118	274867.99	8665994.3	91.564	LP
119	274869.68	8665998.8	91.587	LP
120	274871.4	8666003.3	91.62	LP
121	274873.04	8666007.7	91.677	LP
122	274856.95	8666010.3	91.441	PIST
123	274855.61	8666010.7	91.602	VERD
124	274858.92	8666019.7	91.534	PIST
125	274858.34	8666018.3	91.643	VERD

2534	274740.33	8665903.4	89.416	LP
2535	274740.79	8665901.6	89.303	VERD
2536	274724.9	8665900.3	89.153	PIST
2537	274735.44	8665897.8	89.256	BZ
2538	274725.27	8665901	89.143	LGAS
2539	274727.23	8665896.1	89.294	PT
2540	274748.47	8665898.4	89.503	PL
2541	274730.25	8665892.6	89.375	LP
2542	274737.22	8665888.6	89.465	LP
2543	274744.13	8665884.6	89.492	LP
2544	274749.75	8665889.5	89.396	LP
2545	274751.04	8665880.8	89.587	LP
2546	274758.01	8665876.7	89.659	LP
2547	274764.97	8665872.6	89.751	LP
2548	274772.86	8665884.8	89.69	ESQ
2549	274774.17	8665883.9	89.786	ESQ
2550	274776.01	8665882.8	89.782	ESQ
2551	274776.03	8665879.3	89.793	ESQ
2552	274765.5	8665874.1	89.718	PT
2553	274774.63	8665878.5	89.623	PIST
2554	274771.38	8665873.4	89.648	PIST
2555	274774.57	8665882	89.62	PIST
2556	274771.72	8665874.3	89.645	LGAS
2557	274777.33	8665878.2	89.793	PL
2558	274771.79	8665868.6	89.803	LP
2559	274786.16	8665873.2	89.915	LP
2560	274778.47	8665864.7	89.906	LP
2561	274785.7	8665860.6	89.996	LP
2562	274793.69	8665869	90.025	ESQ
2563	274786.65	8665861.8	89.954	PT
2564	274794.19	8665867.1	89.883	PIST
2565	274791.26	8665861.9	89.845	PIST
2566	274787.08	8665865.3	89.778	LGAS
2567	274799.57	8665860.8	89.925	BZ
2568	274792.98	8665856.4	90.03	ESQ
2569	274798.28	8665856.4	90.023	BZ
2570	274800.65	8665853.7	90.094	PC BM3
2571	274658.25	8665876.8	88.129	ESQ
2572	274655.22	8665878.2	88.064	LP
2573	274658.44	8665871.6	87.986	LGAS
2574	274655.96	8665866.6	87.897	PIST
2575	274655.51	8665865.9	87.86	VERD

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126	274845.39	8666024.8	91.652	PIST
127	274844.89	8666023.4	91.62	VERD
128	274845.02	8665976.6	91.087	PIST
129	274843.55	8665977.1	91.165	VERD
130	274844.04	8666025.4	91.628	VERD
131	274850.79	8666039.3	91.762	PIST
132	274849.51	8666040	91.771	VERD
133	274858.91	8666061.1	91.96	VERD
134	274857.48	8666061.6	91.94	VERD
135	274850.99	8666022	91.668	BZ
136	274845.54	8665966.5	91.222	PC
137	274864.57	8666025.1	91.607	PIST
138	274873.02	8666048.1	91.801	PIST
139	274834.16	8666074.3	91.455	BZ
140	274834.48	8666075	91.464	PC
141	274868.52	8666049.9	91.786	PIST
142	274871.26	8666056.4	91.833	PIST
143	274868.95	8666050.9	91.798	PIST
144	274869.48	8666058.6	91.973	PL
145	274868.95	8666050.9	91.798	PIST
146	274877.01	8666063.8	91.901	PIST
147	274873.09	8666057.4	91.993	VERD
148	274876.16	8666062.1	92.049	PL
149	274886.2	8666088.6	92.318	PL
150	274886.03	8666087.8	92.13	PIST
151	274884.12	8666087.2	92.288	VERD
152	274891.08	8666096.8	92.129	PIST
153	274884.42	8666089.6	92.269	VERD
154	274892.35	8666103	92.169	PIST
155	274883.88	8666090.8	92.259	VERD
156	274896.87	8666103.6	92.242	PIST
157	274880.92	8666098.9	92.029	PIST
158	274882.73	8666104.7	92.043	PIST
159	274877.13	8666094	92.024	PIST
160	274883.18	8666107	92.207	VERD
161	274876.37	8666092.1	92.189	VERD
162	274855.86	8666095.7	91.791	VERD
163	274860.89	8666111.2	91.915	VERD
164	274854.06	8666100.9	91.837	VERD
165	274854.7	8666103.4	91.64	PIST
166	274856.08	8666109.3	91.671	PIST
167	274856.74	8666097.4	91.662	PIST

2576	274654.27	8665864.9	88.016	VERD
2577	274645.89	8665882.5	87.915	LP
2578	274641.52	8665872.2	87.852	PL
2579	274638.3	8665872	87.825	LP
2580	274631.09	8665888.7	87.661	ESQ
2581	274630.26	8665887.3	87.453	VERD
2582	274628.88	8665875.9	87.693	LP
2583	274628.14	8665877.8	87.467	VERD
2584	274629.32	8665889.3	87.497	ESQ
2585	274628.54	8665878.7	87.539	PIST
2586	274630.39	8665881	87.549	BZ
2587	274630.63	8665883.3	87.506	LGAS
2588	274630.85	8665884.3	87.528	PIST
2589	274624.1	8665889.4	87.438	PT
2590	274613.29	8665883.3	87.458	PL
2591	274613.47	8665883.2	87.359	VERD
2592	274608.82	8665896.5	87.398	LP
2593	274613.67	8665884.1	87.357	PIST
2594	274609.82	8665882.4	87.306	PIST
2595	274607.79	8665895.1	87.103	VERD
2596	274611.65	8665882.2	87.44	ESQ
2597	274616.53	8665880.4	87.468	GRIF
2598	274598.11	8665899.7	87.259	LP
2599	274600.8	8665883.7	87.204	PIST
2600	274599.96	8665887.3	87.187	PIST
2601	274597.03	8665890.1	87.14	PIST
2602	274594.92	8665890.6	87.093	PIST
2603	274594.53	8665889.3	87.065	VERD
2604	274593.79	8665888.1	87.248	ESQ
2605	274594.56	8665886.5	87.244	ESQ
2606	274594.67	8665893.6	87.033	BZ
2607	274595.22	8665896.3	87.008	PIST
2608	274595.06	8665895.6	87.057	LGAS
2609	274590.14	8665890.7	86.94	PT
2610	274578.17	8665892.1	87.047	LP
2611	274577.87	8665893.6	86.828	VERD
2612	274577.22	8665894.9	86.863	PIST
2613	274578.05	8665900.7	86.892	PIST
2614	274578.59	8665903.6	87.029	VERD
2615	274580.39	8665904.7	87.044	LP
2616	274586.66	8665901.2	87.056	PL
2617	274579.33	8665899.7	86.914	LGAS

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168	274859.77	8666105.6	91.73	BZ
169	274849.15	8666103.2	91.741	PL
170	274830.83	8666107.6	91.354	PIST
171	274831.58	8666113.5	91.324	PIST
172	274830.12	8666106.7	91.464	VERD
173	274831.08	8666116.3	91.51	VERD
174	274829	8666105.6	91.488	VERD
175	274832.77	8666115.7	91.51	PT
176	274815.77	8666108.9	91.327	PL
177	274814.39	8666108.4	91.277	BZ
178	274798.89	8666113.1	90.914	PIST
179	274799.69	8666119.1	90.903	PIST
180	274798.35	8666112.3	91.099	VERD
181	274797.7	8666110.8	91.029	VERD
182	274799.37	8666122.1	91.021	VERD
183	274799.51	8666109.9	91.102	VERD
184	274798.5	8666115.9	90.89	VERD
185	274784.5	8666114.3	90.849	PL
186	274781.26	8666113.6	90.758	VERD
187	274779.94	8666114	90.795	VERD
188	274779.57	8666115.5	90.788	VERD
189	274784.19	8666115.7	90.695	PIST
190	274784.97	8666121.5	90.708	PIST
191	274756.52	8666126.5	90.392	PIST
192	274755.11	8666120.7	90.453	PIST
193	274755.07	8666119.8	90.449	VERD
194	274754.6	8666118.2	90.391	VERD
195	274754.14	8666119.8	90.461	PL
196	274741.6	8666129.4	90.184	PC
197	274762.7	8666124.6	90.447	LGAS
198	274780.13	8666121.6	90.669	LGAS
199	274811.88	8666116.1	91.099	LGAS
200	274832.88	8666117.3	91.507	LP
201	274832.87	8666117.3	91.213	LP
202	274840.78	8666115.9	91.606	LP
203	274848.64	8666114.5	91.716	LP
204	274848.92	8666109.7	91.549	LGAS
205	274856.51	8666113.2	91.83	LP
206	274855.08	8666102.2	91.811	VERD
207	274864.38	8666111.8	91.942	LP
208	274865.77	8666095.2	91.975	PL
209	274872.28	8666110.4	92.069	LP

2618	274678.48	8665873.8	88.423	PL
2619	274676.46	8665867.6	88.334	ESQ
2620	274674.56	8665864.5	88.165	PIST
2621	274676.46	8665863	88.168	PIST
2622	274685.17	8665862.5	88.408	LP
2623	274558.13	8665897.7	86.883	PC
2624	274683.43	8665857.9	88.249	LGAS
2625	274692.16	8665858.5	88.474	LP
2626	274699.08	8665854.6	88.553	LP
2627	274706.01	8665850.6	88.633	LP
2628	274712.92	8665846.6	88.716	LP
2629	274714.57	8665842.9	88.73	PMT
2630	274671.61	8665857.7	88.452	PL
2631	274719.92	8665842.6	88.815	LP
2632	274672.18	8665857.6	88.195	VERD
2633	274673.63	8665857.9	88.152	PIST
2634	274672.14	8665855.8	88.318	ESQ
2635	274671.67	8665850.1	88.399	ESQ
2636	274726.79	8665838.6	88.929	LP
2637	274677.05	8665848.9	88.184	PIST
2638	274733.74	8665834.6	88.968	LP
2639	274696.87	8665837.5	88.417	PIST
2640	274697.94	8665834.8	88.545	ESQ
2641	274701.39	8665837.6	88.554	ESQ
2642	274702.8	8665838.2	88.562	ESQ
2643	274702.98	8665840.1	88.441	PL
2644	274747.06	8665825.8	89.13	LP
2645	274699.11	8665834	88.55	PL
2646	274702.41	8665841.3	88.436	PIST
2647	274702.6	8665840	88.578	VERD
2648	274702.81	8665844.4	88.46	BZ
2649	274711.5	8665833.1	88.665	LP
2650	274737.73	8665817.4	88.861	PC
2651	274714.85	8665842.5	88.591	PMT
2652	274719.76	8665837.1	88.638	LGAS
2653	274725.71	8665825	88.852	ESQ
2654	274727.4	8665822.8	88.867	ESQ
2655	274728.05	8665817.3	88.893	ESQ
2656	274736.05	8665827.7	88.88	LGAS
2657	274737.15	8665828.1	88.879	PIST
2658	274727.05	8665814.8	88.88	ESQ
2659	274728.78	8665814.4	88.761	VERD


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210	274880.11	8666109	92.266	LP
211	274880.08	8666107.6	92.158	PT
212	274896.5	8666106.2	92.34	ESQ
213	274892.79	8666105.5	92.308	VERD
214	274892.56	8666101.7	92.178	LGAS
215	274894.44	8666065.1	92.241	LP
216	274897.55	8666073.5	92.281	LP
217	274895.3	8666073.4	92.055	PL
218	274900.75	8666081.9	92.353	PL
219	274903.85	8666090.3	92.422	LP
220	274896.38	8666083.7	92.151	LGAS
221	274907.06	8666098.8	92.501	LP
222	274910.22	8666107.3	92.499	LP
223	274907.62	8666106.3	92.466	PL
224	274907.95	8666108.1	92.456	PT
225	274912.92	8666117	92.476	LP
226	274911.8	8666111.5	92.483	LP
227	274910.81	8666119.7	92.478	VERD
228	274909.52	8666112.4	92.469	VERD
229	274909.26	8666119.9	92.282	PIST
230	274908.13	8666112.9	92.316	PIST
231	274902.94	8666120.1	92.31	PIST
232	274906.81	8666112	92.313	LGAS
233	274907.82	8666129.4	92.312	BZ
234	274911.92	8666136.4	92.298	PIST
235	274906.04	8666137.5	92.313	PIST
236	274907.85	8666148.3	92.331	PIST
237	274913.7	8666147.1	92.347	PIST
238	274914.33	8666153	92.396	PIST
239	274906.73	8666153.5	92.373	PIST
240	274910.23	8666160.3	92.428	BZ
241	274965.98	8666212.9	94.523	PC
242	274918.31	8666153.4	92.589	LP
243	274905.97	8666152.1	92.494	ESQ
244	274917.06	8666143.1	92.531	LP
245	274906.1	8666144.3	92.499	VERD
246	274915.56	8666147.9	92.59	VERD
247	274912.33	8666143.8	92.352	LGAS
248	274904.07	8666140.8	92.475	LP
249	274915.59	8666134.2	92.472	LP
250	274902.4	8666130.9	92.402	LP
251	274914.16	8666125.4	92.459	LP

2660	274754.58	8665818.9	89.251	LP
2661	274751.84	8665816.8	89.137	PMT
2662	274751.67	8665816.3	89.115	PIST
2663	274751.08	8665815.5	89.038	LGAS
2664	274731.69	8665823.4	88.747	PL
2665	274733.34	8665822.2	88.837	VERD
2666	274733.95	8665823	88.799	PIST
2667	274735.75	8665821.8	88.811	PIST
2668	274734.9	8665821.2	88.946	VAL
2669	274737.15	8665818.7	88.851	PIST
2670	274736.37	8665814.4	88.829	PIST
2671	274734.89	8665812.9	88.783	PIST
2672	274740.4	8665809.8	88.855	PIST
2673	274744.58	8665812	88.944	PIST
2674	274749.23	8665810.1	88.989	PIST
2675	274758.57	8665813.9	89.294	ESQ
2676	274745.89	8665809	89.118	ESQ
2677	274744.34	8665809.7	88.989	VERD
2678	274757.41	8665813	89.291	VERD
2679	274746.1	8665810.4	88.998	VERD
2680	274747.5	8665809.6	89.014	VERD
2681	274756.37	8665811.2	89.155	PIST
2682	274755.47	8665802.4	89.075	PIST
2683	274760.48	8665805.8	89.203	PIST
2684	274753.69	8665802.4	89.094	VERD
2685	274753.79	8665801.7	89.215	PL
2686	274761.78	8665806.8	89.219	VERD
2687	274762.92	8665807.6	89.28	VERD
2688	274748.86	8665806.2	89.179	ESQ
2689	274767.82	8665799.8	89.375	VERD
2690	274766.39	8665799.2	89.265	VERD
2691	274765.53	8665797.9	89.264	PIST
2692	274768.48	8665800.5	89.533	CERC
2693	274773.32	8665789.4	89.582	CERC
2694	274779.73	8665808.8	90.004	CERC
2695	274779.17	8665775.5	89.609	CERC
2696	274777.22	8665778.2	89.539	VERD
2697	274774.91	8665780	89.542	VERD
2698	274767.5	8665796	89.369	VAL
2699	274740.74	8665806.8	89.006	GRIF
2700	274739.73	8665805.9	88.898	PL
2701	274718.49	8665804.6	88.713	PL

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252	274903.63	8666130.7	92.435	VERD
253	274912.1	8666125.6	92.467	VERD
254	274900.59	8666120.9	92.482	LP
255	274899.64	8666115.9	92.478	LP
256	274900.68	8666114.5	92.42	VERD
257	274901.57	8666114.1	92.291	PIST
258	274901.79	8666198.3	93.364	PC
259	274911.64	8666188.8	92.768	LP
260	274909.58	8666199.6	92.84	ESQ
261	274908.15	8666200.7	92.83	VERD
262	274907.67	8666197.2	92.837	VERD
263	274909.33	8666188.1	92.802	VERD
264	274913.3	8666179.9	92.729	LP
265	274893.33	8666188.5	92.633	PIST
266	274909.86	8666176.3	92.545	PIST
267	274898.42	8666187.8	92.619	PIST
268	274901.71	8666184.1	92.585	PIST
269	274914.97	8666171.1	92.679	LP
270	274903.92	8666175.8	92.569	PIST
271	274912.09	8666172.8	92.574	PL
272	274902.46	8666168.9	92.514	PIST
273	274916.62	8666162.3	92.626	LP
274	274899.83	8666165.9	92.362	PIST
275	274915.91	8666154.5	92.642	GRIF
276	274913.15	8666161.2	92.492	PZT
277	274891.43	8666163.7	92.132	PIST
278	274907.95	8666151.2	92.349	PIST
279	274891.58	8666157.4	92.155	PIST
280	274906.55	8666153.7	92.375	PIST
281	274903.95	8666155	92.323	PIST
282	274905.94	8666152.2	92.5	ESQ
283	274874.56	8666161	91.867	PIST
284	274903.88	8666156	92.325	LGAS
285	274903.57	8666154.6	92.313	PL
286	274912.88	8666154.3	92.421	LGAS
287	274875.77	8666166.9	91.922	PIST
288	274873.74	8666164.4	91.878	BZ
289	274888.25	8666155.7	92.283	LP
290	274872.61	8666159	92.041	LP
291	274880.48	8666157.3	92.098	LP
292	274863.96	8666160	91.859	LP
293	274872.89	8666160.3	91.757	PL

2702	274734.65	8665797.8	88.888	VERD
2703	274733.44	8665798.6	88.771	VERD
2704	274730.46	8665798.8	88.673	PIST
2705	274714.93	8665800.6	88.661	ESQ
2706	274715.87	8665801.7	88.665	ESQ
2707	274720.93	8665790.7	88.506	BZ
2708	274713.14	8665795.8	88.474	PIST
2709	274717.06	8665781	88.376	PIST
2710	274718.37	8665778.5	88.529	PL
2711	274704.83	8665786.4	88.46	LP
2712	274719.85	8665778	88.567	LP
2713	274719.09	8665779.5	88.551	PL
2714	274706.26	8665785.7	88.364	PIST
2715	274707.25	8665785.6	88.375	LGAS
2716	274710.2	8665762	88.378	LP
2717	274701.01	8665780.2	88.383	LP
2718	274707.09	8665764.5	88.176	PIST
2719	274698.61	8665773	88.211	PIST
2720	274709.31	8665763.2	88.256	VERD
2721	274697.78	8665774.5	88.348	PL
2722	274703.96	8665752.3	88.262	PL
2723	274699.59	8665773.1	88.216	LGAS
2724	274704.98	8665751.8	88.253	LP
2725	274689.94	8665761.3	88.095	ESQ
2726	274703.35	8665751.7	88.124	VERD
2727	274692.06	8665761	88.029	PIST
2728	274700.81	8665751.9	88.117	PIST
2729	274692.03	8665761.1	88.009	PIST
2730	274695.85	8665755.7	87.994	PIST
2731	274696.75	8665746.8	87.943	BZ
2732	274692.17	8665754.8	88.08	ESQ
2733	274693	8665753.4	88.107	ESQ
2734	274687.18	8665739.3	87.746	PIST
2735	274691.07	8665734.5	87.876	PIST
2736	274686.08	8665740.2	87.888	LP
2737	274694.03	8665731.8	87.873	ESQ
2738	274691.67	8665728.7	87.877	ESQ
2739	274683.73	8665734.8	87.658	PIST
2740	274693.89	8665733.8	87.81	VERD
2741	274699.12	8665742.4	87.956	VERD
2742	274716.41	8665798.6	88.544	LGAS
2743	274692.58	8665729.8	87.862	PC

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294	274856.62	8666160.8	91.752	LP
295	274856.4	8666162.2	91.739	VERD
296	274856.96	8666163.1	91.586	PIST
297	274848.77	8666161.7	91.601	LP
298	274863.74	8666169.4	91.721	PIST
299	274838.73	8666162.9	91.488	LP
300	274860.52	8666174.7	91.802	PIST
301	274837.38	8666164.5	91.296	PL
302	274862.09	8666179.2	92.013	PIST
303	274834.88	8666165.3	91.292	PIST
304	274855.39	8666180.2	91.912	PIST
305	274834.47	8666171.2	91.274	PIST
306	274851.33	8666175.1	91.689	PIST
307	274845.15	8666172.1	91.472	PIST
308	274835.96	8666168.5	91.321	BZ
309	274828.57	8666162.7	91.415	LP
310	274828.51	8666164.1	91.33	VERD
311	274825.1	8666171	91.134	VERD
312	274826.57	8666171.1	91.157	VERD
313	274826.96	8666165.1	91.182	PIST
314	274827	8666171	91.193	PIST
315	274818.34	8666162.4	91.211	LP
316	274818.28	8666163.7	91.267	VERD
317	274808.16	8666161.9	91.141	LP
318	274797.99	8666161.5	91.024	LP
319	274805.1	8666163.2	91.104	PL
320	274802.2	8666167	90.938	BZ
321	274798.75	8666163.9	90.857	PIST
322	274798.37	8666169.5	90.876	PIST
323	274835.5	8666164.3	91.405	VERD
324	274840.74	8666165.7	91.397	LGAS
325	274905.75	8666193.7	92.678	LGAS
326	274965.99	8666212.9	94.529	PC
327	274855.47	8666189	92.349	PIST
328	274848.19	8666188.5	92.269	PIST
329	274865.32	8666187.2	92.294	PIST
330	274865.23	8666181.3	92.186	PIST
331	274842.03	8666189.2	92.184	PIST
332	274837.45	8666189	92.057	PIST
333	274855.14	8666187.9	92.386	PL
334	274829.97	8666198.3	92.057	PIST
335	274850.03	8666202.5	92.383	PIST

2744	274694.29	8665756.3	88.131	PC
2745	274794.47	8665868.7	90.015	ESQ
2746	274797.52	8665868.3	90.075	ESQ
2747	274800.42	8665870.6	90.108	ESQ
2748	274801.9	8665870.2	89.969	PIST
2749	274798.3	8665867	89.928	PIST
2750	274808.02	8665865.8	90.095	VERD
2751	274807.51	8665863.5	90.12	VERD
2752	274808.7	8665862	90.204	VERD
2753	274809.5	8665863.2	90.197	ESQ
2754	274809.43	8665861.5	90.206	PL
2755	274808.75	8665885.8	90.305	LP
2756	274806.43	8665865.5	90.014	PIST
2757	274806.26	8665862.1	90.003	PIST
2758	274809.14	8665858.5	90.032	PIST
2759	274810.33	8665885.6	90.164	PIST
2760	274815.75	8665883.9	90.223	PIST
2761	274813.11	8665885.9	90.198	BZ
2762	274813.21	8665874.2	90.289	PL
2763	274816.39	8665876	90.343	LP
2764	274821.05	8665884.9	90.433	LP
2765	274817.97	8665889.3	90.267	LGAS
2766	274825.66	8665893.8	90.533	LP
2767	274821.62	8665901.6	90.362	BZ
2768	274825.67	8665893.8	90.509	LP
2769	274821.76	8665911.8	90.565	ESQ
2770	274823.64	8665912.1	90.458	PIST
2771	274829.77	8665902	90.651	LP
2772	274826.88	8665907.4	90.505	LGAS
2773	274819.26	8665917.4	90.49	PIST
2774	274818.09	8665917.1	90.653	VERD
2775	274820.34	8665922.1	90.706	PL
2776	274825.38	8665933.9	90.858	LP
2777	274826.71	8665933.5	90.633	PIST
2778	274833.08	8665948.1	90.818	PIST
2779	274832.64	8665951.3	90.961	ESQ
2780	274838.48	8665954.2	91.047	PL
2781	274839.43	8665957.6	90.95	PIST
2782	274841.12	8665953.1	90.915	PIST
2783	274839.88	8665948.6	90.837	PIST
2784	274818.27	8665857.9	90.282	PIST
2785	274817.43	8665856.7	90.248	VERD

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336	274849.74	8666202.7	92.385	PIST
337	274849.91	8666203	92.418	PIST
338	274837.45	8666195	92.133	BZT
339	274875.45	8666208.2	92.806	PIST
340	274875.69	8666207.6	92.818	PIST
341	274872.05	8666192.3	92.614	PIST
342	274901.12	8666212.7	93.231	PIST
343	274892.99	8666196.5	93.005	PIST
344	274900.94	8666213.3	93.272	PIST
345	274899.29	8666198.3	93.097	PIST
346	274920.64	8666217.4	93.624	PIST
347	274908.17	8666202.8	93.31	PIST
348	274920.59	8666217.3	93.606	PIST
349	274913.82	8666204.2	93.628	PL
350	274918.54	8666205.6	93.506	PIST
351	274908.92	8666209.9	93.375	BZ
352	274918.47	8666205.6	93.5	PIST
353	274948.14	8666222.3	94.073	PIST
354	274948.04	8666222.7	94.077	PIST
355	274948.23	8666222.5	94.079	PIST
356	274918.07	8666203.7	93.678	VERD
357	274911.54	8666202.3	93.555	VERD
358	274909.46	8666201	93.517	VERD
359	274908.04	8666200.7	93.479	VERD
360	274920.72	8666203.9	92.939	VERD
361	274920.67	8666203.9	92.963	VERD
362	274902.44	8666196.3	93.327	VERD
363	274893.42	8666194.4	93.171	VERD
364	274909.34	8666200.9	92.843	VERD
365	274930.02	8666205	93.01	VERD
366	274931.65	8666205.3	93.95	VERD
367	274906.09	8666196.9	92.685	PIST
368	274931.87	8666204	94.026	LP
369	274931.74	8666206.9	93.929	BZ
370	274931.75	8666206.9	93.953	VERD
371	274939.69	8666205.5	94.128	LP
372	274939.05	8666209.7	93.812	PIST
373	274949.26	8666206.2	94.21	LP
374	274946.08	8666210.8	93.965	PIST
375	274949.74	8666207.6	94.15	VERD
376	274946.23	8666210.8	93.963	PIST
377	274949.94	8666208.6	94.224	VERD

2786	274816.22	8665854.4	90.117	PIST
2787	274813.24	8665849.3	90.096	PIST
2788	274811.95	8665847.1	90.212	VERD
2789	274811.31	8665845.8	90.173	VERD
2790	274822.81	8665839.1	90.413	ESQ
2791	274806.79	8665868.2	90.059	LGAS
2792	274832.31	8665833.7	90.626	ESQ
2793	274833.81	8665836.8	90.564	ESQ
2794	274825.07	8665842.2	90.381	ESQ
2795	274830.3	8665836.8	90.555	PL
2796	274818.7	8665841.3	90.378	VERD
2797	274821.67	8665841.4	90.39	VERD
2798	274822.33	8665842	90.376	BZ
2799	274819.64	8665845.6	90.201	PIST
2800	274822.06	8665851	90.234	PIST
2801	274818.52	8665836.7	90.401	PL
2802	274830.97	8665848.9	90.6	PL
2803	274828.65	8665851.8	90.425	ESQ
2804	274831.17	8665850.2	90.553	ESQ
2805	274829.02	8665847.5	90.463	ESQ
2806	274818.06	8665832.4	90.451	LP
2807	274838.26	8665846.2	90.716	ESQ
2808	274829.38	8665851.4	90.557	BZ
2809	274827.96	8665850.4	90.408	VERD
2810	274815.24	8665828.4	90.394	LP
2811	274812.3	8665824.3	90.58	LP
2812	274808.61	8665826.8	90.404	VERD
2813	274809.58	8665820	90.345	LP
2814	274807.1	8665815.7	90.424	LP
2815	274806.91	8665819.4	90.243	PL
2816	274804.31	8665810.9	90.324	LP
2817	274801.55	8665806.2	90.412	LP
2818	274792.23	8665818.5	90.219	CERC
2819	274783.78	8665812	90.102	CERC
2820	274778.04	8665813.1	89.949	LOZA
2821	274765.05	8665820.6	89.955	LOZA
2822	274791.63	8665836.5	90.023	LOZA
2823	274769.82	8665833	89.97	LP
2824	274779.71	8665850.2	90.079	ESQ
2825	274778.55	8665844	90.004	LOZA
2826	274797.25	8665835.6	90.084	PL
2827	274787.11	8665846.1	89.987	ESQ

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378	274953.93	8666209.8	94.106	PIST
379	274946.74	8666208.4	94.172	PL
380	274947.75	8666208.3	94.218	CAJ SMAFOR
381	274948.25	8666210.1	94.207	SMAFOR
382	274957.86	8666208.1	94.129	PIST
383	274957.95	8666202.1	94.234	LP
384	274956.82	8666207.4	94.342	BZ
385	274958.79	8666203.3	94.21	VERD
386	274958.99	8666203.2	94.101	PL
387	274956.58	8666206.5	94.389	VERD
388	274965.47	8666195.2	94.168	VERD
389	274964.59	8666194.1	94.101	LP
390	274968.2	8666196.7	94.062	PIST
391	274964.36	8666202.9	94.123	PIST
392	274959.15	8666207.5	94.133	PIST
393	274971.61	8666203.2	94.209	PIST
394	274960.78	8666213.7	94.216	PIST
395	274966.8	8666209.1	94.229	PIST
396	274970.31	8666214.6	94.474	PIST
397	274974.22	8666210.8	94.627	PIST
398	274977.03	8666204.9	94.722	PIST
399	274974.94	8666151.3	94.194	PC
400	274975.94	8666190.9	94.047	PIST
401	274969.84	8666190.4	93.949	PIST
402	274967.36	8666189.9	94.074	VERD
403	274971.3	8666190.5	93.939	BZ
404	274965.48	8666189.7	94.056	VERD
405	274968.75	8666181.3	93.896	PIST
406	274974.98	8666180	93.948	PIST
407	274975.63	8666179.9	94.4	PIST
408	274967.64	8666184.3	94.049	PL
409	274978.25	8666191.2	94.623	PIST
410	274966.26	8666175	93.979	PT
411	274964.87	8666184	94.056	LP
412	274972.67	8666169.8	94.237	PIST
413	274971.74	8666169.3	93.796	PIST
414	274963.13	8666176.1	93.948	LP
415	274964.61	8666169.2	93.772	PIST
416	274960.72	8666170.6	93.895	LP
417	274963.59	8666169.5	93.91	VERD
418	274965.47	8666168.9	93.826	LGAS
419	274970.26	8666187.8	93.941	LGAS

2828	274829.91	8665849.4	90.551	PC
2829	274834.3	8665860.3	90.575	PL
2830	274837.08	8665862.1	90.61	LP
2831	274834.62	8665863.5	90.593	LP
2832	274839.84	8665867.6	90.744	LP
2833	274842.8	8665873.4	90.794	LP
2834	274840.44	8665874.9	90.81	LP
2835	274842.62	8665877	90.807	LP
2836	274843.37	8665880.5	90.85	LP
2837	274845.81	8665879.2	90.862	LP
2838	274849.12	8665885.3	90.853	LP
2839	274846.53	8665886.4	90.862	LP
2840	274850.27	8665893.3	90.85	LP
2841	274852.45	8665891.5	90.856	LP
2842	274852.21	8665895	90.884	PL
2843	274854.87	8665900.2	90.859	BZ
2844	274853.57	8665899.7	91.028	LP
2845	274856.41	8665899	90.836	LP
2846	274860.11	8665906.7	90.968	LP
2847	274858.63	8665910	91.001	LP
2848	274861.04	8665912.7	91.072	PL
2849	274863.71	8665914.4	91.15	LP
2850	274865.36	8665918.5	91.24	LP
2851	274866.88	8665922.7	91.227	LP
2852	274865.36	8665921.3	91.208	BZ
2853	274866.25	8665922.1	91.237	PC
2854	274864.15	8665923.2	91.251	LP
2855	274866.97	8665929.7	91.333	LP
2856	274865.23	8665931.5	91.447	PL
2857	274867.23	8665935.8	91.366	PL
2858	274867.32	8665940.8	91.411	PL
2859	274867.44	8665946.7	91.531	ESQ
2860	274864.75	8665946.7	91.511	LP
2861	274865.48	8665946.9	91.482	BZ
2862	274866.36	8665949.1	91.585	PL
2863	274866.46	8665951.9	91.615	ESQ
2864	274789.24	8665763.2	89.87	LP
2865	274787.22	8665763.6	89.887	PL
2866	274781.67	8665767.4	89.681	VERD
2867	274785.59	8665766.5	89.878	VERD
2868	274790.34	8665767.9	89.925	LP
2869	274791.62	8665772.8	89.987	LP

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420	274958.24	8666165.1	93.756	LP
421	274955.84	8666159.6	93.828	ESQ
422	274953.94	8666155.3	93.847	ESQ
423	274958.19	8666158.8	93.83	PL
424	274941.63	8666162.4	93.456	BZ
425	274958.35	8666156.4	93.788	BZ
426	274948.48	8666158.7	95.397	PL
427	274944.5	8666163.9	95.483	ESQ
428	274937.98	8666161.3	93.673	ESQ
429	274942.75	8666163.1	93.783	VERD
430	274939.98	8666162.3	93.635	VERD
431	274943.62	8666162.3	93.718	PC
432	274944.5	8666163.9	93.794	ESQ
433	274954.7	8666157.1	93.812	VERD
434	274955.05	8666158.3	93.757	VERD
435	274956.46	8666153.6	93.771	VERD
436	274963.22	8666149.9	93.629	PIST
437	274957.49	8666153.1	93.618	PIST
438	274958.43	8666153.2	93.638	LGAS
439	274966.75	8666149.8	93.979	PIST
440	274951.44	8666149.8	93.689	LP
441	274962.78	8666136.2	93.857	PIST
442	274948.88	8666143.8	93.612	LP
443	274958.46	8666139.1	93.514	PIST
444	274951.86	8666140.6	93.48	PIST
445	274951.68	8666143.3	93.592	VERD
446	274952.04	8666142.7	93.592	PT
447	274945.97	8666138.5	93.44	LP
448	274949.71	8666118	93.349	PIST
449	274943.52	8666133.1	93.456	LP
450	274946.41	8666132.3	93.439	PL
451	274956.88	8666116.3	93.731	PIST
452	274945.48	8666125.7	93.356	PIST
453	274946.33	8666125.6	93.345	LGAS
454	274949.27	8666088.3	93.583	PIST
455	274941.23	8666127.5	93.441	LP
456	274942.38	8666093.5	93.099	PIST
457	274939.18	8666121.7	93.39	LP
458	274936.76	8666114.4	93.348	LP
459	274935.54	8666093.1	93.122	PT
460	274940.17	8666115.3	93.344	VERD
461	274941.95	8666115.7	93.316	PIST

2870	274792.89	8665777.5	89.959	LP
2871	274794.15	8665782.3	90.065	LP
2872	274792.2	8665782.4	89.97	PL
2873	274795.37	8665786.8	90.074	LP
2874	274789.89	8665783.2	89.959	VERD
2875	274785.21	8665779.2	89.988	CERC
2876	274790.89	8665794.7	90.077	CERC
2877	274796.72	8665792.1	90.153	LP
2878	274797.61	8665801.9	90.309	PL
2879	274798.06	8665796.9	90.337	LP
2880	274799.54	8665801.6	90.449	LP
2881	274797.79	8665808	90.452	VERD
2882	274797.85	8665812.1	90.476	CERC
2883	274798.63	8665806.7	90.444	BZ
2884	274783.81	8665757.3	89.792	BZ
2885	274987.43	8665792.2	92.726	LP
2886	274985.87	8665792.7	92.643	VERD
2887	274984.32	8665793	92.573	PIST
2888	274983.34	8665793.1	92.574	LGAS
2889	274985.91	8665799.8	92.662	LP
2890	274983.67	8665807.5	92.603	LP
2891	274980.75	8665815	92.656	LP
2892	274980.72	8665811.6	92.67	PL
2893	274977.72	8665822.1	92.495	PL
2894	274979.25	8665811.2	92.398	PIST
2895	274974.84	8665821.2	92.264	PIST
2896	274978.36	8665810.8	92.403	LGAS
2897	274973.94	8665820.9	92.274	LGAS
2898	274973.91	8665808.5	92.385	PIST
2899	274968.89	8665820	92.273	PIST
2900	274971.25	8665807	92.543	VERD
2901	274965.47	8665819.7	92.333	VERD
2902	274966.77	8665819.7	92.527	VERD
2903	274971.87	8665802.4	92.623	VERD
2904	274973.27	8665801.6	92.488	VERD
2905	274974.52	8665801	92.426	PIST
2906	274975.48	8665823.1	92.479	VERD
2907	274974.6	8665814.5	92.355	BZ
2908	274962.71	8665837.6	92.107	BZ
2909	274973.84	8665829.3	92.4	LP
2910	274970.14	8665836.2	92.353	LP
2911	274967.96	8665838.5	92.318	GRIF

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462	274937.4	8666104.2	93.276	PL
463	274942.91	8666116	93.287	LGAS
464	274934.45	8666105.4	93.293	LP
465	274941.93	8666109.2	93.248	BZ
466	274932.33	8666096.8	93.282	LP
467	274935.43	8666087.6	93.09	PIST
468	274930.8	8666089.1	93.356	LP
469	274930.28	8666081.8	93.185	LP
470	274928.46	8666074.9	93.179	LP
471	274933.74	8666073.7	92.982	LGAS
472	274932.72	8666073.6	93.071	LGAS
473	274939.23	8666072.1	92.965	PIST
474	274947.52	8666076.7	93.459	PIST
475	274927.88	8666067.5	93.128	LP
476	274947.47	8666076.7	93.471	PIST
477	274929.72	8666066.8	93.12	VERD
478	274932.21	8666066.6	92.954	PIST
479	274932.93	8666066.6	92.957	LGAS
480	274938.8	8666065.9	92.952	PIST
481	274933.86	8666061.8	92.943	PIST
482	274929.89	8666063	93.062	PT
483	274927.38	8666060.2	93.129	LP
484	274929.07	8666052.4	93.059	PL
485	274927.28	8666051.5	93.077	ESQ
486	274927.23	8666046.7	93.06	ESQ
487	274929.29	8666047	93.074	VERD
488	274931.78	8666049.4	92.771	PIST
489	274938.29	8666053	92.919	PIST
490	274932.92	8666065.2	92.899	LGAS
491	274938.33	8666053	92.872	PIST
492	274928.26	8666049.8	93.07	PC
493	274906.97	8666058.7	93.067	ESQ
494	274910.59	8666051.3	92.79	ESQ
495	274908.82	8666054.9	92.767	BZ
496	274906.68	8666057.1	92.744	VERD
497	274918.52	8666053.1	92.878	VERD
498	274919.19	8666054.3	93.022	VERD
499	274919	8666054.4	93.092	PL
500	274920.6	8666048.7	92.932	LP
501	274909.81	8666052.9	92.598	VERD
502	274920.6	8666048.9	92.921	VERD
503	274918.35	8666051.5	92.884	BZ

2912	274967.12	8665839.6	92.326	GRIF`PL
2913	274965	8665845.4	92.286	ESQ
2914	274961.8	8665851.6	92.245	LP
2915	274964.75	8665846.1	92.284	ESQ
2916	274960.66	8665850.7	92.084	VERD
2917	274959.38	8665849.9	92.051	PIST
2918	274958.63	8665849.5	92.096	LGAS
2919	274959.64	8665855.6	92.262	LP
2920	274955.77	8665862.7	92.226	LP
2921	274950.84	8665869	92.18	PL
2922	274951.12	8665868.1	92.047	VERD
2923	274950	8665867.2	92.03	PIST
2924	274949.19	8665866.8	92.03	LGAS
2925	274944.99	8665875.7	91.993	PC
2926	274969.86	8665799.5	92.616	VERD
2927	274970.74	8665798.2	92.439	VERD
2928	274971.57	8665797.2	92.421	PIST
2929	274978.03	8665785.3	92.728	VERD
2930	274976.33	8665787.1	92.729	VERD
2931	274976.61	8665788.2	92.536	PIST
2932	274978.53	8665787.4	92.544	PIST
2933	274979.62	8665785.8	92.543	PIST
2934	274976.36	8665785.7	92.728	ESQ
2935	274981.5	8665791.5	92.574	BZ
2936	274964.6	8665795.8	92.187	PIST
2937	274966.54	8665788.1	92.579	PL
2938	274966.44	8665786.8	92.591	LP
2939	274964.67	8665797.5	92.32	VERD
2940	274958.74	8665787.4	92.513	LP
2941	274964.83	8665798.8	92.461	VERD
2942	274949.81	8665788.2	92.308	LP
2943	274949.79	8665789.5	92.326	VERD
2944	274949.88	8665791	92.088	PIST
2945	274949.91	8665797	92.132	PIST
2946	274949.97	8665791.9	92.091	LGAS
2947	274934.7	8665795.1	91.934	BZ
2948	274969.37	8665790.3	92.404	LGAS
2949	274924.7	8665797.9	91.743	PIST
2950	274947.26	8665789.9	92.147	PL
2951	274941.65	8665788.6	92.21	LP
2952	274923.3	8665799.5	91.774	VERD
2953	274922.91	8665801.7	91.828	VERD

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504	274908.52	8666054.6	92.788	PC
505	274927.61	8666040.4	93.017	LP
506	274929.17	8666024.9	92.928	ESQ
507	274929.63	8666040.2	93.011	VERD
508	274931.24	8666023.9	92.907	VERD
509	274932.13	8666040.2	92.811	PIST
510	274933.73	8666024.3	92.73	PIST
511	274938.6	8666040.5	92.843	PIST
512	274939.83	8666028.3	92.801	PIST
513	274946.49	8666040.5	93.129	PIST
514	274943.89	8666025.1	92.894	PIST
515	274947.5	8666029.6	92.981	PIST
516	274931.19	8666025.8	92.926	PT
517	274930.93	8666024.4	92.939	PL
518	274937.77	8666016	92.776	BZ
520	274908.27	8666050	92.559	PL
521	274906.44	8666057.3	92.777	VERD
522	274906.56	8666044.4	92.506	VERD
523	274902.19	8666045.9	92.487	R
524	274907.76	8666043.8	92.615	LP
525	274904.56	8666036.2	92.554	LP
526	274898.18	8666035	92.426	LP
527	274901.46	8666028.6	92.571	LP
528	274900.55	8666029.5	92.435	PL
529	274897.05	8666026.2	92.352	LGAS
530	274893.32	8666022	92.252	VERD
531	274898.07	8666020.1	92.447	VERD
532	274882.58	8665991.6	92.066	PC
533	274890.63	8666009.4	91.991	PC
534	274887.68	8666010.8	91.926	ESQ
535	274883.56	8666003.9	92.003	LP
536	274880.74	8665999.4	92.074	LP
537	274879.89	8665995.1	92.048	LP
538	274878.89	8665990.3	92.076	LP
539	274877.57	8665985.7	92.03	LP
540	274880.86	8665989.7	92.078	BZ
541	274883.68	8665994	92.061	PL
542	274884.5	8665998.3	92.03	PT
543	274886.08	8665997.1	92.274	LP
544	274885.18	8665998.8	92.252	VERD
545	274887.72	8665999.8	92.268	LP
546	274889.27	8666005.7	92.258	PL

2954	274932.9	8665790.4	91.908	VERD
2955	274933.31	8665789	92.033	LP
2956	274933.42	8665791.9	91.869	PIST
2957	274916.82	8665789.1	91.763	LP
2958	274933.31	8665792.5	91.879	LGAS
2959	274930.2	8665790.2	92.019	PL
2960	274908.45	8665789.1	91.713	LP
2961	274925.11	8665789.1	91.933	LP
2962	274908.44	8665789.1	91.648	LP
2963	274908.53	8665790.3	91.651	VERD
2964	274908.58	8665791.9	91.497	PIST
2965	274898.62	8665798.5	91.32	PIST
2966	274908.46	8665792.9	91.529	LGAS
2967	274907.93	8665797.8	91.511	PIST
2968	274899.4	8665801.2	91.336	PIST
2969	274900.98	8665801.5	91.487	VERD
2970	274907.76	8665799.5	91.58	VERD
2971	274907.86	8665800.9	91.601	VERD
2972	274903.01	8665801.7	91.627	VERD
2973	274898.57	8665798.5	91.345	PC
2974	274900.19	8665788.7	91.513	LP
2975	274900.07	8665790.4	91.396	PT
2976	274898.9	8665790.2	91.254	VERD
2977	274898.73	8665791.6	91.288	PIST
2978	274898.57	8665792.4	91.358	LGAS
2979	274888.99	8665800	91.241	LGAS
2980	274886.72	8665797	91.206	LGAS
2981	274895.65	8665789.8	91.46	PL
2982	274887.17	8665791.9	91.191	LGAS
2983	274892.03	8665788.3	91.388	LP
2984	274888.11	8665800.1	91.22	PIST
2985	274886.1	8665797.6	91.143	PIST
2986	274883.07	8665796.5	91.086	PIST
2987	274883.74	8665787.7	91.299	LP
2988	274882.95	8665798.1	91.232	VERD
2989	274883.63	8665789.2	91.149	VERD
2990	274886.66	8665800.7	91.351	VERD
2991	274885.21	8665801	91.441	ESQ
2992	274883.88	8665799.7	91.386	ESQ
2993	274883.27	8665790.6	91.11	PIST
2994	274888.71	8665794.1	91.208	BZ
2995	274875.55	8665787.1	91.126	LP

547	274892.94	8666008.5	92.268	ESQ
548	274891.91	8666010.8	92.211	VERD
549	274901.95	8666011.1	92.263	LGAS
550	274919.61	8666012.1	92.497	LGAS
551	274929.75	8666013	92.649	LGAS
552	274924.62	8666007.8	92.862	LP
553	274914.68	8666007	92.677	LP
554	274914.26	8666008.5	92.692	VERD
555	274909.48	8666010.6	92.341	PIST
556	274906.65	8666006.5	92.545	LP
557	274898.56	8666006.3	92.474	LP
558	274898.84	8666008	92.433	VERD
559	274909.67	8666020.5	92.568	LP
560	274909.56	8666018.8	92.572	VERD
561	274923.52	8666019.8	92.78	PL
562	274928.17	8666020.1	92.848	VERD
563	274928.67	8666017.9	92.641	PIST
564	274923.34	8666017.1	92.56	LGAS
565	274891.7	8666013.3	91.893	LGAS
566	274883.94	8665998.8	92.035	LGAS
567	274880.57	8665984.5	92.054	LGAS
568	274876.19	8665981	91.992	LP
569	274878.26	8665967.9	92.171	ESQ
570	274873.73	8665969.8	92.136	LP
571	274876.46	8665968.6	92.151	VERD
572	274879.94	8665973.6	92.161	LP
573	274878.76	8665975.2	92.149	PL
574	274882.17	8665982.5	92.257	LP
575	274880.77	8665983	92.228	VERD
576	274885.06	8665991.3	92.246	VERD
577	274883.38	8665991.5	92.227	VERD
578	274932.51	8666020.2	92.7	PIST
579	274928.98	8666012	92.626	PIST
580	274929.8	8666011.3	92.879	VAL
581	274932.14	8666010.5	92.939	VAL
582	274935.95	8666012.5	92.717	VAL
583	274934.89	8666010.7	92.728	PIST
584	274930.21	8666009.9	92.871	VERD
585	274928.75	8666009.7	92.887	PT
586	274930.84	8666008.2	92.946	ESQ
587	274932.61	8666006.5	92.961	ESQ
588	274928.82	8666022.8	92.941	ESQ

2996	274867.95	8665798.1	90.974	LP
2997	274867.33	8665786.2	90.994	LP
2998	274867.07	8665796.6	90.9	VERD
2999	274866.05	8665794.9	90.736	PIST
3000	274862.96	8665786.9	90.913	PL
3001	274855.22	8665796.5	90.771	ESQ
3002	274858.89	8665786.6	90.803	PT
3003	274855.5	8665795.1	90.758	VERD
3004	274859.2	8665785.1	90.766	LP
3005	274855.62	8665793.6	90.561	PIST
3006	274850.16	8665786.8	90.406	PIST
3007	274851.14	8665794.8	90.461	PIST
3008	274846.22	8665784.7	90.267	PIST
3009	274840.56	8665792.8	90.302	PIST
3010	274841.33	8665792.6	90.282	LGAS
3011	274847.3	8665787.1	90.343	LGAS
3012	274840.65	8665788.2	90.281	LGAS
3013	274849.66	8665796.3	90.455	LGAS
3014	274841.9	8665789.1	90.249	BZ
3015	274840.37	8665791.4	90.286	PC
3016	274888.68	8665808.9	91.512	LP
3017	274891.91	8665816.2	91.568	LP
3018	274892.82	8665815.1	91.57	PL
3019	274893.13	8665815.5	91.54	VERD
3020	274901.35	8665808	91.512	VERD
3021	274899.99	8665808.7	91.511	VERD
3022	274894.37	8665814.9	91.303	PIST
3023	274898.42	8665808.9	91.338	PIST
3024	274895.32	8665814.5	91.336	LGAS
3025	274895.11	8665823.5	91.636	LP
3026	274898.32	8665830.9	91.773	LP
3027	274914.09	8665837.3	91.734	VERD
3028	274904.07	8665840.4	91.621	VERD
3029	274912.71	8665837.9	91.75	VERD
3030	274911.01	8665837.8	91.597	PIST
3031	274905.31	8665839.6	91.539	PIST
3032	274908.14	8665838.5	91.58	BZ
3033	274906.07	8665839.2	91.598	LGAS
3034	274906.4	8665846.3	91.868	PL
3035	274904.76	8665845.6	91.814	LP
3036	274908.01	8665852.9	91.887	LP
3037	274911.64	8665859.5	92.397	LP

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589	274936.46	8666012.9	92.744	LGAS
590	274943.68	8666007.4	92.722	PIST
591	274947.5	8666011.4	92.877	PIST
592	274951.48	8666008.3	92.917	PIST
593	274951.29	8666001.7	93.226	PTM
594	274959.65	8665982.6	92.864	PIST
595	274972.83	8665955.5	92.89	PIST
596	274987.16	8665929.1	92.991	PIST
597	274996.7	8665911.6	93.03	PIST
598	274993.22	8665901.6	92.686	PIST
599	274978.9	8665928.1	92.632	PIST
600	274967.36	8665949.4	92.638	PIST
601	274953.72	8665976.4	92.647	PIST
602	274943.83	8665986	92.685	LGAS
603	274939.56	8665997	92.714	PIST
604	274937.25	8665996.4	92.903	VERD
605	274935.24	8665996	92.899	LP
606	274934.61	8666006.6	92.958	VERD
607	274937.04	8666006.9	92.704	VERD
608	274942.02	8665988.9	92.666	PIST
609	274944.36	8665989.7	92.664	BZ
610	274948.16	8665972.3	92.618	PIST
611	274948.53	8665968.6	92.639	PIST
612	274951.6	8665959.8	92.602	PIST
613	274955.9	8665956.7	92.591	PIST
614	274961.85	8665945.8	92.566	PIST
615	274961.63	8665947.9	92.604	LGAS
616	274976.57	8665920.2	92.606	LGAS
617	274976.83	8665918.1	92.601	PIST
618	274992.23	8665889.6	92.733	PIST
619	274992.85	8665890.3	92.737	LGAS
620	274997.55	8665893.5	92.74	PIST
621	275010.22	8665870.2	92.885	PIST
622	275004.55	8665866.9	92.876	PIST
623	275005.29	8665867.3	92.896	LGAS
624	275016.7	8665849.4	93.043	BZ
625	275019.24	8665839.5	93.083	PIST
626	275019.8	8665840.1	93.081	LGAS
627	275024.98	8665842.8	93.133	PIST
628	275033.67	8665820	93.282	PIST
629	275029.75	8665819.1	93.274	BZ
630	275028.2	8665818.8	93.277	LGAS

3038	274921.19	8665852.1	91.779	VERD
3039	274912.92	8665858.7	91.995	VERD
3040	274919.9	8665853	91.726	VERD
3041	274919.45	8665854.8	91.716	PIST
3042	274912.77	8665855.6	91.704	PIST
3043	274912.04	8665852.4	91.62	LGAS
3044	274916.68	8665866	92.015	LP
3045	274917.91	8665865.2	92.011	VERD
3046	274919.04	8665864.2	91.778	PIST
3047	274919.6	8665863.6	91.773	LGAS
3048	274923.33	8665860.2	91.751	PIST
3049	274920.64	8665861.4	91.773	BZ
3050	274922.57	8665871.5	92.041	LP
3051	274924.57	8665871.7	92.079	PL
3052	274925.03	8665859.6	91.779	VERD
3053	274924.9	8665857.3	91.8	VERD
3054	274923.64	8665870.4	91.998	VERD
3055	274924.48	8665869.3	91.875	PIST
3056	274925.27	8665868.7	91.871	LGAS
3057	274849	8665783.7	90.645	ESQ
3058	274847.1	8665781.1	90.533	VERD
3059	274844.81	8665781.3	90.187	VERD
3060	274836.31	8665791.8	90.454	LP
3061	274838.08	8665791.5	90.481	VERD
3062	274846.34	8665771.1	90.381	PT
3063	274834.99	8665782.3	90.372	LP
3064	274848.36	8665767	90.307	LP
3065	274836.38	8665778.2	90.368	PL
3066	274846.64	8665766.6	90.232	VERD
3067	274834.72	8665771.8	90.306	LP
3068	274844.5	8665766.3	90.094	VERD
3069	274838.64	8665766.3	90.059	PIST
3070	274839.55	8665766.3	90.081	LGAS
3071	274834.79	8665762.3	90.258	LP
3072	274853.08	8665800.3	90.726	ESQ
3073	274851.5	8665801	90.721	VERD
3074	274849.38	8665801.7	90.46	PIST
3075	274852.12	8665802.7	90.736	PT
3076	274838.39	8665799.8	90.576	LP
3077	274858.36	8665813.4	90.886	LP
3078	274842.35	8665806.4	90.697	VERD
3079	274844.39	8665805.6	90.469	PIST

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631	274977.5	8665911.2	92.815	VERD
632	274976.1	8665910.1	92.831	LP
633	274972.27	8665917.1	92.828	LP
634	274972.75	8665919.7	92.821	PL
635	274968.49	8665924.2	92.826	LP
636	274968.43	8665928.2	92.787	VERD
637	274964.69	8665931.1	92.811	LP
638	274960.84	8665938.2	92.811	LP
639	274959.66	8665944.6	92.781	PT
640	274957.11	8665945.2	92.78	LP
641	274958.29	8665946.4	92.779	PT
642	274955.33	8665951.8	92.784	PL
643	274953.75	8665955.5	92.786	VERD
644	274947.46	8665964	92.593	PC
645	274945.73	8665971.4	92.816	VERD
646	274943.8	8665971.6	92.856	ESQ
647	274943.21	8665981	92.709	PT
648	274940.29	8665980.5	92.974	LP
649	274940.68	8665984.1	92.957	PL
650	274937.65	8665988.3	92.967	LP
652	274942.19	8665967.8	92.787	ESQ
653	274943.8	8665966.6	92.772	VERD
654	274944.54	8665964.5	92.557	PIST
655	274942.87	8665966.4	92.785	PL
656	274931.22	8665962.4	92.555	VERD
657	274926.36	8665962	92.57	LP
658	274920.48	8665956.6	92.482	VERD
659	274919.53	8665958.1	92.486	LP
660	274916.92	8665954.3	92.438	PL
661	274918	8665952.2	92.24	PIST
662	274918.66	8665951.6	92.244	LGAS
663	274923.95	8665955.2	92.328	LGAS
664	274923.39	8665956	92.393	PIST
665	274933.58	8665960.9	92.411	PIST
666	274934.44	8665960.2	92.431	LGAS
667	274929.55	8665956.1	92.354	BZ
668	274912.5	8665946.6	92.185	LGAS
669	274908.44	8665947	92.356	VERD
670	274907.01	8665948	92.352	LP
671	274900.38	8665940.4	92.304	LP
672	274901.8	8665939.3	92.306	VERD
673	274903.58	8665938	92.074	PIST

3080	274861.61	8665820.7	91.031	LP
3081	274843.66	8665809.9	90.768	PL
3082	274860.18	8665821.2	91.015	PT
3083	274843.81	8665814.6	90.824	LP
3084	274859.65	8665820.3	90.995	VERD
3085	274857.84	8665822.3	90.833	PIST
3086	274848.27	8665824.6	91.012	ESQ
3087	274853.59	8665837.6	91.294	ESQ
3088	274850.83	8665837.1	91.029	VERD
3089	274849.02	8665821.9	90.695	VERD
3090	274856.16	8665838.9	91.303	VERD
3091	274850.86	8665821.2	90.803	PIST
3092	274858.41	8665838.1	91.143	PIST
3093	274855.05	8665834.7	91.024	PIST
3094	274851.15	8665825.9	90.835	PIST
3095	274849	8665828.8	90.816	PIST
3096	274850.24	8665834.9	90.891	PIST
3097	274855.8	8665832	91.007	LGAS
3098	274853.28	8665826.1	90.851	LGAS
3099	274851.35	8665819.9	90.766	LGAS
3100	274859.34	8665838.3	91.144	LGAS
3101	274862.7	8665840.4	91.152	BZ
3102	274856.75	8665840.5	91.327	PL
3103	274864.73	8665828.1	91.396	LP
3104	274859.08	8665849.6	91.396	LP
3105	274860.36	8665848.8	91.228	VERD
3106	274857.8	8665834.7	91.063	PC
3107	274849.2	8665838.3	91.184	PL
3108	274847.15	8665827.4	90.792	VERD
3109	274848.11	8665829.2	90.774	PIST
3110	274838.44	8665846.1	90.814	ESQ
3111	274832.38	8665833.5	90.807	ESQ
3112	274837.92	8665844.5	90.697	VERD
3113	274838.13	8665841.8	90.683	PIST
3114	274833.2	8665835	90.855	PIST
3115	274835.16	8665836.4	90.648	PIST
3116	274867.9	8665835.3	91.321	LP
3117	274871.13	8665842.8	91.418	LP
3118	274874.32	8665850.1	91.472	LP
3119	274872.45	8665850.4	91.451	PT
3120	274880.7	8665864.8	91.508	LP
3121	274877.4	8665857.3	91.546	LP

674	274904.3	8665937.5	92.078	LGAS
675	274907.8	8665938.7	92.12	BZ
676	274906.44	8665938	92.071	PC
677	274922.95	8665948.6	92.307	PIST
678	274929.48	8665948	92.482	LP
679	274933.88	8665950.4	92.541	LP
680	274933.48	8665952	92.539	VERD
681	274932.99	8665952.2	92.538	PT
682	274933.67	8665954.4	92.408	PIST
683	274942.69	8665955.4	92.672	VERD
684	274943.05	8665953.6	92.678	LP
685	274943.91	8665957.9	92.532	PIST
686	274949.48	8665957.5	92.806	VERD
687	274949.22	8665957.7	92.761	PT
688	274951.12	8665956.2	92.775	ESQ
689	274953.63	8665956.9	92.827	BZT
690	274978	8665942.7	93.021	PMT
691	274979.94	8665903.1	92.859	LP
692	274981.42	8665904.1	92.857	VERD
693	274983.76	8665896.1	92.909	LP
694	274988.78	8665890.4	92.918	PL
695	274987.57	8665888.9	92.921	LP
696	274991.39	8665881.9	92.974	LP
697	274995.17	8665874.9	93.014	LP
698	274996.76	8665875.7	93.022	VERD
699	275000.1	8665866	93.108	LP
700	275002.39	8665865.7	93.144	PT
701	275005.55	8665859.7	93.152	PL
702	275005.66	8665855.6	93.166	LP
703	275009.55	8665848.5	93.22	LP
704	275011.09	8665849.4	93.232	VERD
705	275013.46	8665841.2	93.337	LP
706	275018.69	8665834.2	93.4	VERD
707	275016.88	8665838.4	93.38	VERD
708	275020.32	8665830.3	93.433	PL
709	274985.99	8665906.7	92.634	BZ
710	274999.95	8665865.8	93.081	ESQ
711	275000.69	8665864.6	93.087	ESQ
712	274999.34	8665865.4	93.08	PL
713	275017.16	8665833.6	93.387	LP
714	275022.08	8665826.3	93.402	PT
715	275020.26	8665825.7	93.402	LP

3122	274876.05	8665858.3	91.573	VERD
3123	274874	8665859.1	91.34	PIST
3124	274883.9	8665872.1	91.691	LP
3125	274869.47	8665863.8	91.361	PIST
3126	274870.3	8665863.5	91.345	LGAS
3127	274882.12	8665872.7	91.627	PT
3128	274868.32	8665866.7	91.49	VERD
3129	274870.48	8665872	91.619	PL
3130	274887.08	8665879.4	91.78	LP
3131	274870.99	8665877.2	91.66	LP
3132	274890.32	8665886.8	91.861	LP
3133	274875.03	8665886.2	91.745	LP
3134	274876.73	8665886	91.566	VERD
3135	274886.87	8665882.4	91.759	VERD
3136	274885.06	8665884.6	91.582	PIST
3137	274880.51	8665888.9	91.557	PIST
3138	274881.29	8665888.6	91.599	LGAS
3139	274884.2	8665890	91.628	BZ
3140	274879.05	8665895.4	91.826	LP
3141	274893.44	8665893.9	92	LP
3142	274883.13	8665900.8	91.769	PL
3143	274883.3	8665904.4	91.938	LP
3144	274887.05	8665913.9	91.923	LP
3145	274894.39	8665904.8	91.783	PIST
3146	274886.77	8665903.4	91.714	PIST
3147	274887.61	8665903.1	91.721	LGAS
3148	274884.7	8665903.9	91.834	VERD
3149	274899.91	8665917	91.895	PIST
3150	274899.71	8665918.2	91.916	PIST
3151	274891.02	8665923	92.167	LP
3152	274895.19	8665931.9	92.217	LP
3153	274906.22	8665931.5	92.055	PIST
3154	274907.52	8665932	92.064	PIST
3155	274908.37	8665931.3	92.055	PIST
3156	274912.21	8665939.5	92.14	PC
3157	274895.4	8665928.8	92.18	PL
3158	274897.46	8665927.7	91.939	PIST
3159	274895.23	8665931.9	92.144	LP
3160	274895.26	8665931.9	92.217	LP
3161	274900.32	8665940.4	92.308	LP
3162	274901.81	8665939.4	92.217	VERD
3163	274903.45	8665938	92.079	VERD

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716	275024.76	8665818	93.453	VERD
717	275022.98	8665817.6	93.453	LP
718	275025.12	8665809.6	93.46	LP
719	275027.96	8665805.1	93.502	PL
720	275026.92	8665801.3	93.515	LP
721	275028.88	8665801.5	93.512	VERD
722	275031.79	8665799.4	93.31	PIST
723	275032.93	8665797.3	93.375	LGAS
724	275030.48	8665796.4	93.413	BZT
725	275028.21	8665793	93.662	LP
726	275030.41	8665793.2	93.539	PT
727	275029.11	8665784.6	93.557	LP
728	275031.02	8665784.7	93.533	VERD
729	275033.47	8665784.7	93.422	PIST
730	275034.39	8665784.9	93.423	LGAS
731	275035.81	8665786.6	93.442	BZ
732	275039.9	8665787.7	93.429	PIST
733	275047.33	8665791.6	93.407	PIST
734	275043.01	8665815.8	93.353	PIST
735	275035.48	8665838.3	93.289	PIST
736	275031.08	8665777.5	93.492	PL
737	275029.41	8665776.2	93.496	LP
738	275029.23	8665767.8	93.364	LP
739	275031.28	8665767.9	93.365	VERD
740	275033.71	8665767.6	93.243	PIST
741	275034.63	8665767.6	93.245	LGAS
742	275040.25	8665766.9	93.25	PIST
743	275048.11	8665767	93.295	PIST
744	275038.74	8665751.9	93.039	PIST
745	275030.66	8665743.1	92.876	PIST
746	275027.93	8665743.2	93.082	VERD
747	275026.24	8665743.5	93.082	ESQ
748	275028.04	8665744.9	93.109	PL
749	275032.04	8665746.2	92.906	LGAS
750	275030.22	8665755.1	93.227	PT
751	275028.69	8665759.7	93.271	LP
753	275047.21	8665755.4	93.26	PIST
754	275034.2	8665725.1	92.781	PIST
755	275045.08	8665741.9	93.088	PIST
756	275036.93	8665720.5	92.776	PIST
757	275040.37	8665739	92.976	PIST
758	275041.59	8665723.2	92.888	PIST

3164	274903.52	8665936.4	92.07	LGAS
3165	274915.43	8665937	92.338	ESQ
3166	274914.88	8665935.2	92.245	VERD
3167	274913.51	8665934.4	92.115	PIST
3168	274896.65	8665901.3	91.963	ESQ
3169	274916.22	8665933.1	92.348	PL
3170	274898.82	8665904.4	91.988	ESQ
3171	274899.02	8665906.7	91.935	VERD
3172	274921.59	8665925.7	92.345	LP
3173	274900.9	8665910.2	91.832	PIST
3174	274921.94	8665922.1	92.327	VERD
3175	274904.82	8665917.7	91.959	PIST
3176	274920.57	8665921.5	92.134	PIST
3177	274907.23	8665911.8	91.922	PIST
3178	274918.01	8665924.3	92.14	LGAS
3179	274909.2	8665910.1	92.172	VERD
3180	274909.15	8665908.6	92.223	LP
3181	274908.96	8665910.1	92.115	PL
3182	274915.11	8665919.1	92.148	PIST
3183	274918.02	8665909.1	92.165	PIST
3184	274915.25	8665917.5	92.124	PIST
3185	274917.95	8665907.3	92.343	PIST
3186	274914.28	8665917.4	92.125	PIST
3187	274917.3	8665906	92.367	LP
3188	274921.12	8665901.8	92.334	LP
3189	274925.21	8665919	92.378	LP
3190	274922.02	8665902.9	92.314	VERD
3191	274923.26	8665903.8	92.183	PIST
3192	274928.64	8665911.7	92.335	LP
3193	274924.58	8665907.9	92.192	BZ
3194	274925.89	8665909.5	92.204	LGAS
3195	274932.8	8665904.8	92.253	LP
3196	274925.36	8665912.2	92.157	PIST
3197	274924.88	8665894.8	92.313	LP
3198	274933.83	8665900.5	92.312	PL
3199	274928.88	8665887.5	92.265	LP
3200	274936.63	8665897.8	92.264	LP
3201	274933.42	8665878.9	92.249	ESQ
3202	274940.51	8665890.8	92.272	LP
3203	274933.24	8665882.2	92.045	VERD
3204	274934.54	8665883.1	92.053	PIST
3205	274935.42	8665879.7	92.039	PIST

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759	275037.33	8665743.2	92.914	PIST
760	275038.86	8665728.1	92.873	PIST
761	275041.25	8665741.8	93.292	CAJSEMA
762	275035.17	8665728.2	92.843	LGAS
763	275031.43	8665733.8	92.816	BZ
764	275028.83	8665747.3	93.017	VERD
765	275025.16	8665730	92.729	LGAS
766	275030.29	8665741.4	92.842	PIST
767	275027.61	8665738.1	92.779	PIST
768	275023.43	8665737.5	92.759	PIST
769	275023.86	8665740	92.957	VERD
770	275024.34	8665741.9	93.033	ESQ
771	275024.32	8665738.3	92.983	SEMAF
772	275030.41	8665736.1	92.813	LGAS
773	275023.32	8665725.4	92.659	LGAS
774	275023.35	8665736.6	92.743	LGAS
775	275011.65	8665744.1	92.865	LP
776	275010.74	8665742.3	92.848	VERD
777	275010.37	8665739.8	92.615	PIST
778	275010.01	8665739.1	92.629	LGAS
779	275050.1	8665706.9	93.125	ESQ
780	275020.65	8665712.2	92.787	ESQ
781	275028.46	8665717.4	92.683	BZ
782	275006.94	8665742.2	92.662	PMT
783	275018.76	8665723.7	92.572	PIST
784	275023.13	8665726.8	92.672	PIST
785	275020.27	8665731.4	92.629	PIST
786	274995.8	8665747	92.694	LP
787	274986.06	8665748.9	92.623	ESQ
788	274993	8665736.2	92.467	PIST
789	274988.5	8665746.2	92.649	VERD
790	274992.01	8665728.4	92.093	PIST
791	274988.09	8665743.7	92.439	PIST
792	274984.11	8665733.1	92.294	PMT
793	274984	8665747	92.433	PIST
794	274983.41	8665750.7	92.433	PIST
795	274984.89	8665750.4	92.607	VERD
796	274985.2	8665750.8	92.63	PL
797	274979.45	8665742.8	92.391	BZ
798	274977.94	8665740.1	92.369	BZ
799	274976.42	8665738.8	92.336	PIST
800	274987.96	8665742.9	92.449	LGAS

3206	274934.36	8665876.7	91.987	PIST
3207	274940.27	8665888	92.132	VERD
3208	274941	8665877	92.045	BZ
3209	274943.77	8665883.6	92.197	LP
3210	274942.91	8665883.2	92.113	VERD
3211	274941.68	8665882.5	91.989	PIST
3212	274940.92	8665882	92.001	LGAS
3213	274959.24	8665831.5	92.235	VERD
3214	274960.09	8665833.1	92.169	VERD
3215	274960.83	8665834.7	92.124	PIST
3216	274943.29	8665860.7	92.068	VERD
3217	274944.6	8665861.4	92.04	VERD
3218	274944.94	8665863.9	91.987	PIST
3219	274939.18	8665869.2	91.947	PIST
3220	274938.48	8665867.8	91.961	VERD
3221	274937.95	8665866.3	92.159	VERD
3222	274933.73	8665865	92.006	VERD
3223	274932.84	8665866.3	91.887	VERD
3224	274931.8	8665867.3	91.855	PIST
3225	274932.38	8665874.8	91.94	PIST
3226	274931.61	8665876.1	92.203	VERD
3227	274944.46	8665864.8	91.964	PC BM2
3228	274931.46	8665873.3	91.938	LGAS
3229	274718.2	8665718.5	88.76	LP
3230	274712.8	8665715.6	88.825	LP
3231	274707.5	8665712.6	88.492	LP
3232	274700.32	8665715	88.329	LP
3233	274702.22	8665709.6	88.376	LP
3234	274701.96	8665710.3	88.373	PL
3235	274691.82	8665709.8	88.257	LP
3236	274697.05	8665706.4	88.164	LP
3237	274691.94	8665703	88.139	LP
3238	274684.72	8665703.1	88.129	PL
3239	274683.56	8665704	88.08	PL
3240	274684.14	8665700.1	88.085	BZ
3241	274682.18	8665698.2	88.083	PL
3242	274679.57	8665699.3	88.106	LP
3243	274686.68	8665699.6	88.063	ESQ
3244	274704.36	8665716.2	88.486	VERD
3245	274683.82	8665703.2	88.09	VERD
3246	274697.49	8665712.1	88.341	VERD
3247	274682.01	8665696.5	88.315	LP

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801	274976.34	8665745.2	92.339	LGAS
802	274970.32	8665745.3	92.213	LGAS
803	274977.41	8665751.1	92.409	PIST
804	274972.71	8665746.2	92.298	PIST
805	274976.47	8665748.7	92.378	PIST
806	274975.93	8665751.3	92.546	VERD
807	274974.22	8665750.2	92.586	ESQ
808	274973.27	8665747.3	92.537	PL
809	274966.91	8665739.9	92.122	PIST
810	274966.89	8665732.1	91.723	PIST
811	274938.35	8665734.2	91.302	PIST
812	274901.03	8665733.9	90.689	PIST
813	274983.18	8665746.2	92.427	PC
814	274859.53	8665729.3	90.038	PIST
815	274854.03	8665732.1	89.995	PIST
816	274855.43	8665736.4	90.009	PIST
817	274877.46	8665739.6	90.474	PIST
818	274907.81	8665742.2	90.968	PIST
819	274910.46	8665738.2	91.155	PMT
820	274839.52	8665732	89.825	PC
821	274981.57	8665745	92.432	LGAS
822	274984.1	8665759.1	92.462	LGAS
823	274984.81	8665766.2	92.491	LGAS
824	274980.65	8665793.3	92.566	PC
825	274988.75	8665768.3	92.685	LP
826	274987.36	8665768.3	92.705	VERD
827	274986.56	8665760.1	92.658	VERD
828	274984.9	8665750.4	92.603	VERD
829	274985.85	8665768.2	92.514	PIST
830	274979.85	8665768.7	92.465	PIST
831	274976.57	8665764.6	92.678	LP
832	274982.74	8665767.6	92.489	BZ
833	274978.12	8665765.1	92.641	VERD
834	274977.01	8665770.4	92.7	LP
835	274973.01	8665748.5	92.526	VERD
836	274962.98	8665751.4	92.308	LP
837	274953.18	8665752.3	92.095	LP
838	274952.96	8665750.4	92.101	VERD
839	274952.05	8665741.3	91.848	PIST
840	274952.36	8665748.1	91.868	PIST
841	274952.31	8665747.1	91.881	LGAS
842	274944.44	8665750.6	91.788	PMT

3248	274687.27	8665724.3	87.756	LP
3249	274682	8665719.8	87.637	LP
3250	274681.05	8665721	87.576	VERD
3251	274679.66	8665722.9	87.42	PIST
3252	274679.07	8665723.6	87.441	LGAS
3253	274682.33	8665723	87.691	BZ
3254	274683.91	8665723.6	87.824	PL
3255	274691.52	8665730.4	87.843	PT
3256	274690.13	8665729.6	87.708	PT
3257	274691.54	8665728.7	87.841	ESQ
3258	274690.75	8665730	87.729	VERD
3259	274688.55	8665731.2	87.713	PIST
3260	274685.09	8665728.7	87.606	LGAS
3261	274675.4	8665715.4	87.549	LP
3262	274677.68	8665730.9	87.634	ESQ
3263	274673.91	8665729.9	87.531	ESQ
3264	274671.75	8665718.9	87.346	BZ
3265	274671.09	8665729.4	87.474	ESQ
3266	274669.5	8665725.1	87.48	ESQ
3267	274670.49	8665724	87.376	PIST
3268	274669.63	8665712.3	87.476	LP
3269	274658.59	8665718.5	87.137	PIST
3270	274658.21	8665719.9	87.313	VERD
3271	274660.31	8665708.7	87.362	LP
3272	274647.53	8665717.5	87.146	LP
3273	274648.18	8665716.1	87.037	PIST
3274	274647.47	8665709.9	87.082	PIST
3275	274647.29	8665710.9	87.068	LGAS
3276	274659.61	8665710.7	87.314	PT
3277	274657.19	8665710.5	87.293	PL
3278	274657.98	8665709.9	87.267	GRIF
3279	274640.4	8665705.8	87.108	LP
3280	274642.25	8665707.2	87.127	VERD
3281	274651.06	8665706.5	87.237	LP
3282	274630.73	8665706.5	87.07	LP
3283	274630.87	8665708	86.99	VERD
3284	274629.46	8665710.7	86.898	PIST
3285	274621.61	8665710.4	86.898	PT
3286	274633.89	8665710.2	86.915	LGAS
3287	274633.99	8665711.1	86.894	BZ
3288	274621.11	8665709.5	86.953	PL
3289	274620.88	8665708.4	86.942	LP

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843	274942.95	8665752.8	91.89	LP
844	274928.69	8665742.4	91.44	PIST
845	274932.87	8665753.3	91.717	LP
846	274922.97	8665753.4	91.542	LP
847	274920.85	8665748.2	91.262	LGAS
848	274922.75	8665751.5	91.449	VERD
849	274920.85	8665748.9	91.265	PIST
850	274913.02	8665751.9	91.331	PL
851	274911.53	8665745.9	91.094	BZ
852	274909.25	8665743.5	91.069	BZ
853	274912.79	8665753.2	91.337	LP
854	274902.68	8665752.8	91.18	LP
855	274900.17	8665750.7	91.115	VERD
856	274899.65	8665748.4	90.876	PIST
857	274887.44	8665750.1	90.925	PL
858	274899.4	8665747.5	90.89	LGAS
859	274883.76	8665748.6	90.808	PMT
860	274893.05	8665752	91.132	LP
861	274887.22	8665751.7	90.889	LP
862	274883.08	8665751.4	90.841	LP
863	274873.18	8665750.3	90.647	LP
864	274869.6	8665747.8	90.54	VERD
865	274869.26	8665745.3	90.351	PIST
866	274869.36	8665744.4	90.364	LGAS
867	274852.99	8665741.9	90.03	LGAS
868	274863.41	8665749	90.31	LP
869	274848.39	8665744.8	89.974	PIST
870	274852.57	8665742.9	90.036	PIST
871	274846.92	8665748	89.949	PIST
872	274851.12	8665744.7	90.228	PL
873	274849.17	8665748.4	90.159	VERD
874	274852.16	8665745.3	90.215	VERD
875	274837.39	8665744.3	90.11	ESQ
876	274851.11	8665746.8	90.218	ESQ
877	274841.09	8665746.3	89.914	PIST
878	274840.24	8665742.2	89.87	PIST
879	274845.07	8665738.8	89.872	BZ
880	274845.23	8665736.7	89.906	BZ
881	274836.36	8665739.5	89.842	PIST
882	274835.89	8665742	90.08	VERD
883	274838.96	8665746	90.148	VERD
884	274838.3	8665748	90.151	PL

3290	274630.71	8665710.6	86.899	PC
3291	274630.64	8665718	86.982	LP
3292	274630.08	8665716.7	86.838	PIST
3293	274611.07	8665710.3	86.819	LP
3294	274609.26	8665722.1	86.713	LP
3295	274607.99	8665721.1	86.539	PIST
3296	274605.98	8665712.6	86.703	VERD
3297	274606.75	8665715.2	86.557	PIST
3298	274607.01	8665715.9	86.558	LGAS
3299	274592.98	8665729.9	86.311	PIST
3300	274590.57	8665731.9	86.424	LP
3301	274591.46	8665714.1	86.544	LP
3302	274588.17	8665718.7	86.316	PIST
3303	274588.31	8665719.6	86.326	LGAS
3304	274580.23	8665734	86.332	LP
3305	274580.26	8665734.1	86.336	ESQ
3306	274578.69	8665734.3	86.333	ESQ
3307	274578.32	8665732.8	86.165	PIST
3308	274585.45	8665716.6	86.796	PL
3309	274578.1	8665726.8	86.158	LGAS
3310	274577.05	8665721.8	86.175	LGAS
3311	274579.49	8665732.5	86.177	LGAS
3312	274582.19	8665718	86.254	PT
3313	274578	8665732.7	86.149	LGAS
3314	274575.99	8665721.9	86.138	LGAS
3315	274568.62	8665736.2	85.926	ESQ
3316	274568.15	8665734.8	86.02	PIST
3317	274567.26	8665729	85.991	PIST
3318	274581.38	8665722.5	86.223	BZ
3319	274561.9	8665719.9	86.172	LP
3320	274566	8665736.5	86.103	PL
3321	274553.33	8665737.7	85.846	PIST
3322	274563.27	8665723.5	85.981	PIST
3323	274552.51	8665739.3	85.875	VERD
3324	274549.34	8665735	85.783	VERD
3325	274549.14	8665732.3	85.79	PIST
3326	274539.75	8665734.1	85.639	PIST
3327	274535.62	8665735.8	85.589	PIST
3328	274533.4	8665742.9	85.577	PIST
3329	274534.43	8665742.8	85.599	VERD
3330	274535.99	8665742.6	85.649	VERD
3331	274552.22	8665721.8	86.048	LP

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885	274837.51	8665741.7	90.124	PMT
886	274842.76	8665740.2	89.917	LGAS
887	274836.68	8665732.8	89.817	PIST
888	274827.88	8665742.2	90.019	LP
889	274832.32	8665730.5	89.89	PMT
890	274819.78	8665740.3	89.961	LP
891	274834.46	8665728	89.95	PMT
892	274812.05	8665738.1	89.909	LP
893	274813.31	8665736.5	89.938	VERD
894	274813.88	8665734.1	89.674	PIST
895	274814.82	8665727.4	89.641	PIST
896	274813.82	8665733.2	89.675	LGAS
897	274817.42	8665737.1	89.941	PL
898	274802.89	8665735.4	89.88	LP
899	274804.36	8665732.1	89.704	PMT
900	274799.08	8665731.5	89.772	PL
901	274799.09	8665729.2	89.56	PIST
902	274794.57	8665730	89.617	PIST
903	274792.4	8665732.7	89.766	PIST
904	274796.7	8665733.1	89.886	ESQ
905	274793.78	8665733.2	89.863	VERD
906	274798.63	8665731.7	89.827	VERD
907	274792.3	8665731	89.765	LGAS
908	274793.77	8665727.6	89.62	LGAS
909	274793.92	8665729.8	89.595	VAL
910	274792.63	8665724.5	89.594	BZ
911	274786.93	8665730.5	89.796	PIST
912	274786.45	8665725.9	89.598	PIST
913	274782.66	8665723.5	89.556	PIST
914	274785.52	8665730	89.837	VERD
915	274779.91	8665725.2	89.721	PL
916	274783	8665732.5	89.841	ESQ
917	274782.97	8665730.1	89.823	ESQ
918	274780.82	8665727.8	89.816	ESQ
919	274773.23	8665724.8	89.601	ESQ
920	274781.45	8665725.1	89.761	VAL
922	274785.39	8665727.3	89.828	PC
923	274795.22	8665733.7	89.887	ESQ
924	274781.16	8665740.2	89.895	PL
925	274793.6	8665737.7	89.901	LP
926	274791.84	8665742.2	89.945	LP
927	274779.34	8665745.1	89.791	VERD

3332	274536.55	8665739.4	85.697	VERD
3333	274549.92	8665723.4	85.983	PL
3334	274540.48	8665736.7	85.688	VERD
3335	274542.37	8665723.6	85.944	LP
3336	274528.89	8665733.1	85.55	BZ
3337	274528.46	8665731.2	85.571	LGAS
3338	274528.17	8665730.4	85.552	PIST
3339	274532.72	8665725.9	85.811	LP
3340	274525.13	8665744.1	85.604	PL
3341	274536.71	8665725.4	85.852	PL
3342	274527.55	8665743.7	85.522	PIST
3343	274525.45	8665739.7	85.471	PIST
3344	274523.73	8665727.3	85.718	LP
3345	274519.09	8665738.5	85.375	PIST
3346	274519.69	8665740.9	85.492	VERD
3347	274518.21	8665732.5	85.435	PIST
3348	274520.06	8665742.2	85.594	ESQ
3349	274521.84	8665742.4	85.608	ESQ
3350	274518.66	8665733.4	85.48	LGAS
3351	274523.67	8665744.3	85.678	ESQ
3352	274525.35	8665746.8	85.685	PL
3353	274514.96	8665731	85.406	PL
3354	274504.99	8665745.3	85.273	VERD
3355	274503.82	8665743	85.183	PIST
3356	274501.49	8665737.5	85.269	PIST
3357	274501.83	8665738.4	85.374	LGAS
3358	274501.42	8665738.5	85.14	LGAS
3359	274489.23	8665748.3	85.04	PIST
3360	274487.02	8665742.7	85.117	PIST
3361	274489.98	8665750.6	85.2	VERD
3362	274486.26	8665740.6	85.163	PT
3363	274487.11	8665740	85.244	VERD
3364	274478.4	8665752.1	84.92	PIST
3365	274474.14	8665754.9	84.923	PIST
3366	274475.26	8665746.6	84.96	PIST
3367	274480.72	8665742	85.185	PL
3368	274532.26	8665738.9	85.542	LP
3369	274534.56	8665751.6	85.6	PIST
3370	274528.81	8665752.4	85.566	PIST
3371	274529.55	8665751.9	85.554	LGAS
3372	274530.52	8665765.6	85.623	PIST
3373	274536.07	8665765.6	85.63	PIST

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928	274789.94	8665746.7	89.824	LP
929	274780.85	8665745.7	89.636	PIST
930	274786.3	8665748	89.691	PIST
931	274783.65	8665746.6	89.657	BZ
932	274787.49	8665748.1	89.842	BZ
933	274785.23	8665748.3	89.673	LGAS
934	274771.68	8665760.2	89.646	LP
935	274788.06	8665751.3	89.849	LP
936	274772.57	8665761.8	89.613	VERD
937	274787.02	8665756.4	89.794	ESQ
938	274784.61	8665756.6	89.751	VERD
939	274783.36	8665757.3	89.782	BZ
940	274769.82	8665772.3	89.323	PIST
941	274780.07	8665763.9	89.557	PIST
942	274781.8	8665763.6	89.727	LGAS
943	274779.87	8665761.6	89.569	LGAS
944	274768.5	8665771.8	89.511	PL
945	274770.39	8665780.8	89.377	BZ
946	274764.18	8665778.7	89.468	LP
947	274771.73	8665783.6	89.379	PIST
948	274766.26	8665781.2	89.235	PIST
949	274772.26	8665786.4	89.519	VERD
950	274764.8	8665780.8	89.436	VERD
951	274771.48	8665785.6	89.462	PT
952	274765.33	8665793.6	89.252	BZ
953	274759.24	8665790.6	89.348	LP
954	274760.36	8665791	89.374	VERD
955	274768	8665796.2	89.438	VERD
956	274769.06	8665797.4	89.38	VERD
957	274766.13	8665796.6	89.26	PIST
958	274761.44	8665792.7	89.179	PIST
959	274767.43	8665796.1	89.403	VAL
960	274766.73	8665796.6	89.374	PC
961	274784.54	8665763.3	89.752	PC
962	274783.89	8665719.4	89.545	BZ
963	274777.64	8665721.7	89.482	PIST
964	274779.95	8665715.4	89.444	PIST
965	274780.87	8665707.5	88.923	PIST
966	274783.87	8665709.6	89.283	PMT
967	274761.7	8665715	89.19	PIST
968	274764.17	8665708.9	89.109	PIST
969	274766.82	8665701.6	88.782	PIST

3374	274537.91	8665765.3	85.827	VERD
3375	274539.31	8665765	85.775	ESQ
3376	274539.84	8665766.2	85.857	PL
3377	274532.57	8665781.5	85.667	PIST
3378	274536.68	8665769.5	85.678	PIST
3379	274535.71	8665781	85.716	BZ
3380	274540.88	8665772.9	85.752	PIST
3381	274538.12	8665780.9	85.718	PIST
3382	274543.6	8665783.7	85.782	PIST
3383	274542.16	8665773.3	85.762	PIST
3384	274539.7	8665789	85.76	PIST
3385	274533.83	8665790.2	85.693	PIST
3386	274542.05	8665784.9	85.783	PIST
3387	274540.56	8665795	85.779	PIST
3388	274535.8	8665798.7	85.734	LGAS
3389	274535.72	8665804.2	85.779	PIST
3390	274541.71	8665803.7	85.788	PIST
3391	274537.51	8665817.3	85.852	PIST
3392	274538.32	8665817.1	85.869	LGAS
3393	274543.42	8665816.7	85.92	PIST
3394	274544.91	8665827.7	86.017	PIST
3395	274545.88	8665828.1	86.016	VERD
3396	274545.01	8665828.2	85.99	PIST
3397	274541.69	8665840.4	86.068	LGAS
3398	274545.13	8665842.4	86.14	BZ
3399	274547.82	8665841.9	86.128	VERD
3400	274546.94	8665842.2	86.109	PIST
3401	274551.36	8665858.2	86.409	LP
3402	274549.99	8665858.5	86.182	VERD
3403	274543.31	8665860.5	86.236	PIST
3404	274549.03	8665858.7	86.222	PIST
3405	274544.2	8665860.4	86.221	LGAS
3406	274534.66	8665826	86.151	LP
3407	274533.59	8665818	86.107	LP
3408	274534.51	8665817.9	86.104	PL
3409	274534.42	8665815.2	85.981	VERD
3410	274532.55	8665810.1	86.053	LP
3411	274531.46	8665802.2	85.98	LP
3412	274532.49	8665798.8	85.848	VERD
3413	274530.42	8665794.2	85.928	LP
3414	274529.36	8665786.3	85.874	LP
3415	274529.91	8665781.5	85.853	PL

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970	274740.53	8665704.9	88.769	PIST
971	274743.95	8665699.4	88.787	PIST
972	274719.97	8665693.5	88.412	PIST
973	274719.56	8665689.2	88.389	BZ
974	274722.49	8665687.5	88.424	PIST
975	274699.01	8665680.4	87.983	PIST
976	274702.67	8665675	87.937	PIST
977	274696.92	8665680.2	88.032	BZ
978	274706.28	8665667.9	87.953	PIST
979	274674.28	8665662.3	87.475	PIST
980	274674.63	8665659.7	87.573	BZ
981	274677.7	8665665.6	87.556	BZ
982	274679.86	8665658.2	87.557	PIST
983	274663.76	8665653.5	87.237	PIST
984	274683.62	8665651.3	87.584	PIST
985	274658.67	8665652	87.115	PIST
986	274659.95	8665653	87.391	PC
987	274667.45	8665637.6	87.355	PIST
988	274667.8	8665650.2	87.302	PIST
989	274658.54	8665655	87.35	ESQ
990	274662.08	8665655.4	87.438	VERD
991	274664.67	8665657.9	87.479	PL
992	274666.93	8665662	87.596	LP
993	274671.75	8665665.9	87.693	LP
994	274671.77	8665665.9	87.699	LP
995	274673.02	8665664.4	87.669	VERD
996	274679.13	8665671.6	87.847	LP
997	274680.03	8665670.2	87.849	PL
998	274683.77	8665674.6	87.97	LP
999	274688.23	8665677.7	87.998	LP
1000	274693.17	8665681.5	88.104	ESQ
1001	274697.42	8665684.7	88.163	ESQ
1002	274702.49	8665688.1	88.359	ESQ
1003	274707.59	8665691.3	88.404	LP
1004	274697.73	8665682.5	88.098	VERD
1005	274699.89	8665684.3	88.229	PL
1006	274712.62	8665694.5	88.494	LP
1007	274713.57	8665693.1	88.523	VERD
1008	274723.09	8665700.6	88.677	VERD
1009	274717.87	8665697.5	88.646	VERD
1010	274724.23	8665699.4	88.673	PL
1011	274728.36	8665703.4	88.689	LP

3416	274528.32	8665778.4	85.845	LP
3417	274529.58	8665777.3	85.766	VERD
3418	274527.2	8665770.3	85.773	LP
3419	274526.09	8665762.2	85.961	LP
3420	274527.61	8665762	85.712	VERD
3421	274525.12	8665754.5	85.749	LP
3422	274547.28	8665790.2	85.976	PC
3423	274547.33	8665782.7	85.816	PIST
3424	274547.6	8665768.6	85.771	PIST
3425	274549.01	8665789.3	85.87	PIST
3426	274547.78	8665767.1	85.805	LP
3427	274564.85	8665791.9	85.994	PIST
3428	274564.66	8665793.3	86.007	VERD
3429	274567.61	8665772.5	85.99	PIST
3430	274566.51	8665771.5	86.11	PL
3431	274567.77	8665773.9	85.985	PIST
3432	274569.92	8665770.9	86.142	LP
3433	274566.4	8665792.2	86.043	ESQ
3434	274566.3	8665793.5	86.079	VERD
3435	274567.32	8665774.5	85.988	LGAS
3436	274564.13	8665791.6	85.95	LGAS
3437	274576.23	8665793.9	86.129	VERD
3438	274575.65	8665795.1	86.251	VERD
3439	274576.2	8665794.1	86.251	PL
3440	274577.16	8665793.7	86.307	BZ
3441	274584.13	8665796.5	86.283	VERD
3442	274584.59	8665795.4	86.302	ESQ
3443	274586.93	8665797.4	86.313	VERD
3444	274592.32	8665796.6	86.381	VERD
3445	274597.92	8665797.8	86.442	PL
3446	274612.68	8665800	86.55	ESQ
3447	274612.49	8665801.4	86.546	VERD
3448	274614.32	8665800.9	86.867	PC
3449	274556.77	8665792	85.936	ESQ
3450	274555.5	8665792.3	85.931	ESQ
3451	274549.27	8665797.8	85.924	ESQ
3452	274548.63	8665799.5	85.898	ESQ
3453	274546.86	8665797.3	85.825	PIST
3454	274548.75	8665801.5	86.009	PL
3455	274535.79	8665834.3	86.213	LP
3456	274549.02	8665813.6	85.943	VERD
3457	274536.66	8665841.8	86.251	LP

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1012	274733.69	8665706.2	88.923	LP
1013	274739	8665709.1	88.956	LP
1014	274747.53	8665711.3	89.069	VERD
1015	274755.87	8665715.5	89.214	PL
1016	274759.71	8665719.1	89.236	ESQ
1017	274759.28	8665720.5	89.323	ESQ
1018	274759.8	8665721.5	89.349	VERD
1019	274761.73	8665718.2	89.306	VERD
1020	274769.47	8665721.1	89.423	VERD
1021	274773.84	8665721.2	89.543	VERD
1022	274777.22	8665722.6	89.553	VERD
1023	274765.19	8665725.1	89.411	PARD
1024	274750.76	8665725.6	89.261	PARD
1025	274731.74	8665726.3	89.014	PARD
1026	274745.13	8665721.2	89.281	LP
1027	274744.76	8665722.2	89.247	VERD
1028	274745.01	8665724.1	89.24	BZ
1029	274697.32	8665727.4	88.172	ESQ
1030	274733.83	8665721.8	89.091	LP
1031	274698.38	8665725.4	88.217	PL
1032	274725.75	8665723.2	88.946	LP
1033	274724.77	8665722.1	88.933	ESQ
1034	274724.83	8665723.2	88.933	VERD
1035	274701.25	8665724.4	88.295	LP
1036	274720.45	8665725	88.852	BZ
1037	274713.06	8665722.8	88.646	ESQ
1038	274716.51	8665722.9	88.777	PC
1039	274697.41	8665724.8	88.203	ESQ
1040	274705.02	8665724.9	88.39	VERD
1041	274704.92	8665724	88.395	VERD
1042	274713.9	8665723.7	88.719	VERD
1043	274655.38	8665656.1	87.17	VERD
1044	274655.37	8665656.1	86.852	VERD
1045	274649.94	8665660.6	86.752	VERD
1046	274649.27	8665661.3	87.032	PL
1047	274648.47	8665661.5	86.704	PT
1048	274642.06	8665665.2	86.613	VERD
1049	274654.29	8665655	86.934	PIST
1050	274641.47	8665666.9	86.765	LP
1051	274639.14	8665661.9	86.576	BZ
1052	274637.93	8665658.8	86.516	PIST
1053	274643.5	8665662.8	86.602	PIST

3458	274550.39	8665824	86.191	PIST
3459	274548.62	8665827	86.094	VERD
3460	274539.76	8665854.3	86.329	PL
3461	274547.43	8665829	86.152	VERD
3462	274538.8	8665857.7	86.165	LP
3463	274540.2	8665857.9	86.306	VERD
3464	274539.91	8665865.6	86.431	LP
3465	274540.92	8665873.5	86.495	LP
3466	274543.01	8665859.9	86.228	PIST
3467	274542.31	8665873.1	86.315	VERD
3468	274541.93	8665881.5	86.558	LP
3469	274543.04	8665889.2	86.623	ESQ
3470	274544.3	8665888.4	86.482	VERD
3471	274546.79	8665888.8	86.474	PIST
3472	274551.72	8665824.8	86.228	VERD
3473	274460.98	8665730.2	84.834	LP
3474	274463.67	8665743.8	84.829	VERD
3475	274462.76	8665748.2	85.023	ESQ
3476	274465.3	8665745	84.904	PIST
3477	274464.14	8665749.5	84.828	PIST
3478	274460.82	8665752	84.73	PIST
3479	274460.32	8665750.6	84.955	VERD
3480	274474.01	8665743	85.138	ESQ
3481	274477.66	8665743.5	85.07	VERD
3482	274480.36	8665742.3	85.201	PL
3483	274499.88	8665748.7	85.345	LP
3484	274487.21	8665753.3	85.17	LP
3485	274477.18	8665756.8	84.978	ESQ
3486	274476.98	8665752.7	84.94	PIST
3487	274477.44	8665755.3	85.112	VERD
3488	274473.4	8665756.6	84.885	PIST
3489	274473.62	8665760.8	84.911	PIST
3490	274472.77	8665760.9	84.912	LGAS
3491	274476.36	8665766.3	85.002	PT
3492	274475.99	8665758	85.115	PL
3493	274475.99	8665760.4	85.011	VERD
3494	274479.24	8665774.2	85.12	LP
3495	274480.51	8665782	85.181	LP
3496	274479.11	8665782	85.063	VERD
3497	274476.67	8665782.3	85.004	PIST
3498	274475.78	8665782.3	84.992	LGAS
3499	274481.68	8665789.9	85.202	LP

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1054	274643.32	8665661.7	86.663	LGAS
1055	274643.72	8665654	86.809	VERD
1056	274648.48	8665650.4	87.129	VERD
1057	274649.56	8665651.6	86.891	PIST
1058	274652.27	8665646.9	87.011	PIST
1059	274650.46	8665641.7	87.032	PIST
1060	274649.59	8665646.9	87.211	ESQ
1061	274648.57	8665643.3	87.028	VERD
1062	274651.39	8665642.8	87.067	PIST
1063	274658.73	8665649.2	87.176	LGAS
1064	274662.38	8665652.4	87.252	LGAS
1065	274645.91	8665641.2	87.178	GRIF
1066	274646.13	8665640.8	87.058	VAL
1067	274642	8665637.8	87.153	PL
1068	274641.09	8665638.9	87.17	LP
1069	274654.89	8665636.8	87.123	PIST
1070	274634.1	8665631.9	87.007	LP
1071	274660.73	8665631.6	87.234	PIST
1072	274658.34	8665631.6	87.299	PMT
1073	274634.42	8665629.6	86.875	VERD
1074	274645.51	8665616.7	86.951	PIST
1075	274635.4	8665626.5	86.81	PIST
1076	274640.17	8665622.3	86.827	PIST
1077	274634.92	8665626.1	86.775	LGAS
1078	274639.41	8665623.6	86.825	BZ
1079	274634.72	8665623.2	86.758	BZ
1080	274623.79	8665621	86.793	LP
1081	274626.47	8665607.5	86.519	PIST
1082	274631.58	8665601.7	86.772	PIST
1084	274625.08	8665620.4	86.81	LP
1085	274619.93	8665613.9	86.686	LP
1086	274612.66	8665608.3	86.552	LP
1087	274614.48	8665607.5	86.302	VERD
1088	274606.92	8665601.3	86.413	LP
1089	274615.44	8665604.8	86.348	PIST
1090	274613.44	8665602.2	86.308	LGAS
1091	274612.76	8665601.8	86.277	LGAS
1092	274601.86	8665595.2	86.26	ESQ
1093	274605.35	8665592.4	86.076	PIST
1094	274599.39	8665588.9	85.933	PIST
1095	274594.68	8665591.2	85.797	PIST
1096	274603.4	8665593.9	86.076	VERD

3500	274480.93	8665793.2	85.231	PL
3501	274482.81	8665797.8	85.243	LP
3502	274483.96	8665805.7	85.337	LP
3503	274482.53	8665805.7	85.302	PT
3504	274480.09	8665806.3	85.087	PIST
3505	274479.29	8665806.5	85.082	LGAS
3506	274478.76	8665810.3	85.102	BZ
3507	274485.09	8665813.7	85.373	LP
3508	274486.24	8665821.6	85.423	LP
3509	274485.97	8665826.9	85.474	PL
3510	274488.48	8665837.4	85.564	LP
3511	274487.21	8665837.7	85.553	VERD
3512	274484.68	8665837.9	85.295	PIST
3513	274483.77	8665838.1	85.304	LGAS
3514	274489.68	8665845.3	85.607	LP
3515	274492.01	8665914.4	85.973	BM-07
3516	274486.01	8665904.4	85.89	PIST
3517	274487.33	8665899.2	85.792	PIST
3518	274486.47	8665899.3	85.844	VERD
3519	274485.04	8665901.1	86.009	ESQ
3520	274482.7	8665883	85.806	LP
3521	274480.41	8665868.1	85.581	ESQ
3522	274481.94	8665868	85.607	VERD
3523	274482.95	8665867.9	85.539	PIST
3524	274480.94	8665862.7	85.463	PIST
3525	274478.05	8665861.2	85.336	PIST
3526	274477.65	8665854.1	85.275	PIST
3527	274480.1	8665849.9	85.355	PIST
3528	274479.89	8665846.6	85.33	PIST
3529	274486.53	8665855.7	85.47	PC
3530	274478.31	8665836.2	85.178	PIST
3531	274477.06	8665837.8	85.348	VERD
3532	274478.47	8665846.9	85.419	VERD
3533	274485.14	8665847.1	85.375	LGAS
3534	274485.95	8665847	85.381	PIST
3535	274471.45	8665838.3	85.293	VERD
3536	274472.01	8665834.3	85.26	PIST
3537	274470.02	8665820.8	84.99	PIST
3538	274468.61	8665821	85.035	VERD
3539	274467.87	8665813.8	85.103	PL
3540	274468.23	8665812.6	85.112	BZ
3541	274466.47	8665795.5	84.9	PIST

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1097	274596.29	8665593.1	86.002	VERD
1098	274603.12	8665593.8	86.272	PL
1099	274595.61	8665594.3	86.078	PL
1100	274606.31	8665594	86.127	LGAS
1101	274600.47	8665585.8	85.954	LGAS
1102	274605.17	8665591.7	86.093	LGAS
1103	274605.8	8665584.9	86.05	BZ
1104	274599.89	8665581.7	85.935	BZ
1105	274608.81	8665578.4	86.285	BZ
1106	274607.62	8665570.1	86.207	BZ
1107	274600.81	8665568.5	86.178	BZ
1108	274591.67	8665575.7	85.77	PIST
1109	274610.46	8665581.4	86.303	PIST
1110	274592.21	8665580.2	85.846	PIST
1111	274609.55	8665587	86.13	PIST
1112	274589.96	8665583.6	85.795	PIST
1113	274615.79	8665582.4	86.338	PIST
1114	274616.4	8665585.2	86.545	PMT
1115	274611.59	8665586.5	86.402	VAL
1116	274590.12	8665580.8	86.04	ESQ
1117	274595.34	8665590	85.84	LGAS
1118	274577.62	8665591.2	85.767	LP
1119	274593.25	8665592.7	85.763	LGAS
1120	274587.47	8665600.5	85.605	VERD
1121	274571.25	8665599.1	85.371	VERD
1122	274584.15	8665600.5	85.533	PIST
1123	274578.36	8665593.2	85.558	PIST
1124	274580.61	8665608.7	85.626	LP
1125	274567.72	8665599.5	85.562	LP
1126	274570.06	8665615.2	85.421	PL
1127	274559.07	8665606.1	85.328	ESQ
1128	274559.71	8665608	85.14	PIST
1129	274562.95	8665620.5	85.26	PC
1130	274566.94	8665619.4	85.314	ESQ
1131	274565.33	8665622.4	85.253	ESQ
1132	274565.84	8665617.7	85.146	VERD
1133	274564.39	8665615.7	85.075	PIST
1134	274561.89	8665619.3	85.056	PIST
1135	274566.17	8665614.2	85.13	LGAS
1136	274555.45	8665618	85.017	BZ
1137	274558.15	8665627.7	85.03	PIST
1138	274555.18	8665624.2	84.961	PIST

3542	274465.3	8665794.5	84.993	VERD
3543	274472.62	8665796.6	84.954	PIST
3544	274471.57	8665789.1	84.944	PIST
3545	274470.61	8665789.2	84.975	VERD
3546	274468.97	8665788.8	85.093	ESQ
3547	274467.09	8665775.1	85.037	LP
3548	274467.19	8665765.1	84.942	VERD
3549	274468.14	8665764.9	84.873	PIST
3550	274465.33	8665763.1	84.992	ESQ
3551	274466.42	8665760.1	84.846	PIST
3552	274461.27	8665758.3	84.694	PIST
3553	274460.85	8665761.9	84.713	ESQ
3554	274463.88	8665761.4	84.964	ESQ
3555	274470.93	8665749.1	84.944	LGAS
3556	274471.7	8665737.3	84.839	PT
3557	274471.42	8665731.2	84.768	PL
3558	274472.19	8665740.3	84.885	VERD
3559	274454.84	8665752.4	84.875	PL
3560	274452.89	8665751.8	84.836	LP
3561	274445.19	8665754.1	84.693	LP
3562	274445.45	8665755.5	84.473	VERD
3563	274445.85	8665757.3	84.496	PIST
3564	274446.12	8665758	84.483	LGAS
3565	274437.31	8665755.6	84.618	LP
3566	274437.71	8665756.9	84.618	PT
3567	274429.18	8665756.3	84.523	LP
3568	274429.19	8665757.9	84.479	VERD
3569	274429.46	8665759.3	84.311	PIST
3570	274429.43	8665760.2	84.32	LGAS
3571	274421.09	8665759.4	84.165	PIST
3572	274416.76	8665757.7	84.022	PIST
3573	274421.74	8665757.6	84.377	PL
3574	274410.18	8665758.1	83.966	PC
3575	274418.03	8665768.7	84.078	BZ
3576	274419.03	8665768.6	84.092	PIST
3577	274423.97	8665767.6	84.131	PIST
3578	274432.66	8665767.8	84.227	PIST
3579	274432.26	8665774.6	84.156	PIST
3580	274432.29	8665774.7	84.152	ESQ
3581	274435.89	8665773.5	84.199	LP
3582	274442.17	8665771.3	84.316	LP
3583	274447.47	8665769.5	84.435	LP

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1139	274549.35	8665624	84.871	PIST
1140	274550.47	8665626.3	85.11	VERD
1141	274556.88	8665628.6	84.958	VERD
1142	274555.11	8665628.4	85.194	ESQ
1143	274552.17	8665627.7	85.13	ESQ
1144	274552.69	8665624.6	85.15	BZT
1145	274557.38	8665607.1	85.215	VERD
1146	274553.81	8665602.7	85.136	VERD
1147	274555.23	8665601.4	85.206	VERD
1148	274560.42	8665607.6	85.141	VERD
1149	274551.11	8665622.8	84.914	LGAS
1150	274546.85	8665613.1	84.966	VERD
1151	274544.18	8665629.4	84.961	PL
1152	274538.14	8665633.2	84.889	LP
1153	274537.21	8665631.5	84.862	VERD
1154	274536.06	8665629.2	84.648	PIST
1155	274535.56	8665628.7	84.665	LGAS
1156	274533.44	8665620.6	84.661	PIST
1157	274532.68	8665618.7	84.664	VERD
1158	274529.61	8665629.2	84.62	BZ
1159	274525.48	8665636.4	84.72	LP
1160	274524.34	8665631.4	84.535	LGAS
1161	274517.57	8665637.6	84.626	LP
1162	274517.93	8665635.6	84.612	VERD
1163	274517.39	8665633.1	84.415	PIST
1164	274517.19	8665632.6	84.434	LGAS
1165	274517.5	8665635.7	84.618	PL
1166	274516.48	8665624.2	84.431	PIST
1167	274517.53	8665635.8	84.564	PT
1168	274517.02	8665636.2	84.585	PT
1169	274516.3	8665622.2	84.493	VERD
1170	274499.06	8665624.3	84.204	VERD
1171	274500.04	8665637.8	84.389	VERD
1172	274500.75	8665635.2	84.217	PIST
1173	274499.67	8665626.3	84.197	PIST
1174	274501.18	8665634.6	84.234	LGAS
1176	274579.85	8665670.3	85.493	PC VI'PC
1177	274563.73	8665625.2	85.063	PIST
1178	274565.37	8665644.7	85.44	LP
1179	274564.67	8665624.4	85.19	VERD
1180	274570.9	8665653.5	85.546	LP
1181	274567.43	8665627.8	85.291	PL

3584	274453.65	8665767.3	84.637	LP
3585	274472.48	8665695.5	84.355	ESQ
3586	274472.58	8665693.2	84.178	PIST
3587	274475.36	8665692.2	84.196	PIST
3588	274475.47	8665693.7	84.378	VERD
3589	274474.96	8665686.3	84.176	PIST
3590	274474.86	8665684.9	84.294	VERD
3591	274480.03	8665693	84.414	PL
3592	274481.61	8665693.1	84.476	PT
3593	274483.49	8665694.1	84.478	LP
3594	274499.36	8665692.1	84.684	LP
3595	274499.06	8665690.8	84.656	VERD
3596	274499.21	8665689.1	84.467	PIST
3597	274499.25	8665688.5	84.484	LGAS
3598	274507.35	8665691.2	84.792	LP
3599	274515.21	8665690.2	84.872	LP
3600	274517.81	8665688.8	84.912	PL
3601	274523.2	8665689.2	84.967	LP
3602	274531.16	8665688.1	85.076	LP
3603	274531.06	8665686.5	84.966	PT
3604	274531.24	8665685.5	84.874	PIST
3605	274526.19	8665683	84.853	BZ
3606	274538.67	8665678.2	85.006	PIST
3607	274538.27	8665675.4	85.189	LP
3608	274538.43	8665676.7	85.17	VERD
3609	274530.43	8665676.4	85.097	LP
3610	274522.41	8665677.4	84.991	LP
3611	274514.54	8665678.4	84.879	LP
3612	274506.55	8665679.4	84.792	LP
3613	274498.61	8665680.4	84.689	LP
3614	274490.67	8665682.8	84.502	VERD
3615	274490.89	8665684.1	84.392	PIST
3616	274482.68	8665682.3	84.494	LP
3617	274416.3	8665736.3	83.695	LP
3618	274414.7	8665736.3	83.597	PT
3619	274414.56	8665734.1	83.437	VERD
3620	274413.32	8665734.3	83.404	PIST
3621	274414.88	8665753.4	83.901	PIST
3622	274416.39	8665753.4	84.121	VERD
3623	274418.06	8665755.9	84.254	ESQ
3624	274407.21	8665752.8	84.055	PL
3625	274407.41	8665751.1	83.879	VERD

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1182	274568.72	8665630.8	85.237	PT
1183	274572.73	8665653.6	85.543	VERD
1184	274573.78	8665652.7	85.359	PIST
1185	274574.58	8665637.2	85.411	LP
1186	274571.32	8665639	85.239	LGAS
1187	274578.02	8665668.5	85.715	ESQ
1188	274578.84	8665643.9	85.487	LP
1189	274579.16	8665667.2	85.712	VERD
1190	274580.27	8665666.9	85.502	PIST
1191	274583.05	8665650.7	85.598	LP
1192	274578.73	8665670.6	85.455	PIST
1193	274509.63	8665638.5	84.511	LP
1194	274501.7	8665639.5	84.382	LP
1195	274493.76	8665640.6	84.278	LP
1196	274485.75	8665641.5	84.196	LP
1197	274485.42	8665639.7	84.174	VERD
1198	274485.16	8665637.2	83.945	PIST
1199	274485.05	8665636.5	83.975	LGAS
1200	274483.6	8665628.4	84.003	PIST
1201	274483.77	8665626.2	84.065	VERD
1202	274482.02	8665640.6	84.138	PL
1203	274477.63	8665640.2	84.014	PT
1204	274477.82	8665642.5	84.18	LP
1205	274466.86	8665643.8	83.966	ESQ
1206	274465.98	8665630	83.727	PIST
1207	274468.32	8665639.3	83.785	PIST
1208	274465.03	8665627.9	83.7	PIST
1209	274464.68	8665642.4	83.718	PIST
1210	274464.6	8665624.6	83.773	PIST
1211	274464.37	8665622.6	83.836	ESQ
1212	274468.71	8665641.5	83.947	VERD
1213	274467.38	8665638.8	83.772	LGAS
1214	274463.71	8665639.6	83.725	LGAS
1215	274460.12	8665637.8	83.708	BZ
1216	274455.65	8665631.7	83.56	PIST
1217	274456.8	8665643.1	83.642	PIST
1218	274452.66	8665641.2	83.564	PIST
1219	274455.9	8665641.6	83.637	PC
1220	274467.07	8665628.3	83.997	VERD
1221	274466.27	8665621.5	83.77	VERD
1222	274464.3	8665647.2	83.759	PIST
1223	274458.26	8665647.6	83.689	PIST

3626	274406.29	8665756.3	84.11	ESQ
3627	274408.03	8665756.3	83.905	PIST
3628	274403.18	8665759.2	83.923	PIST
3629	274403.35	8665757.9	84.123	PT
3630	274403.21	8665757.6	84.091	VERD
3631	274398.47	8665757.5	84.057	PL
3632	274390.22	8665756.3	83.954	LP
3633	274382.23	8665756.9	83.871	LP
3634	274382.57	8665758.3	83.849	VERD
3635	274382.77	8665759.8	83.626	PIST
3636	274383.56	8665760.4	83.665	LGAS
3637	274386.29	8665762	83.727	BZ
3638	274374.39	8665757.8	83.714	LP
3639	274370.6	8665759.5	83.662	PL
3640	274366.42	8665759.2	83.652	LP
3641	274359.09	8665762.2	83.439	VERD
3642	274359.46	8665763.6	83.256	PIST
3643	274359.57	8665764.4	83.285	LGAS
3644	274358.77	8665762.9	83.189	PT
3645	274350.65	8665762.5	83.357	LP
3646	274342.82	8665764.1	83.236	LP
3647	274343.56	8665765	83.232	PL
3648	274342.09	8665769.9	83.067	BZ
3649	274334.96	8665766.2	83.096	LP
3650	274327.19	8665767.4	83.004	LP
3651	274327.73	8665768.7	82.977	VERD
3652	274327.72	8665769.3	82.93	PT
3653	274327.89	8665770.2	82.769	PIST
3654	274327.96	8665771.1	82.812	LGAS
3655	274319.28	8665769.1	82.874	LP
3656	274311.45	8665770.8	82.737	LP
3657	274312.19	8665771.7	82.749	PL
3658	274303.59	8665772.5	82.6	LP
3659	274295.73	8665774.1	82.497	LP
3660	274296	8665775.5	82.512	VERD
3661	274296.19	8665777	82.309	PIST
3662	274296.44	8665777.8	82.306	LGAS
3663	274298.01	8665779.2	82.351	BZ
3664	274285.29	8665778.4	82.153	PT
3665	274283.74	8665777.8	82.311	PL
3666	274277.94	8665778	82.214	ESQ
3667	274281.31	8665778.7	82.185	VERD

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1224	274465.65	8665647.1	83.788	VERD
1225	274465.9	8665647.1	83.962	PL
1226	274465.88	8665649.4	83.836	PT
1227	274458.18	8665670.1	84.017	LP
1228	274469.29	8665663.8	84.073	LP
1229	274468.17	8665667.1	83.955	PIST
1230	274466.11	8665667.2	83.918	LGAS
1231	274459.7	8665682.7	84.196	LP
1232	274469.79	8665667.6	84.081	VERD
1233	274461.05	8665682.5	84.103	VERD
1234	274459.6	8665670	83.993	VERD
1235	274462.38	8665682.3	84	PIST
1236	274469.66	8665675.9	84.193	PL
1237	274469.11	8665680.5	84.067	PT
1238	274469.91	8665680.7	84.112	VERD
1239	274468.43	8665680.9	84.08	PIST
1240	274470.73	8665685.1	84.096	PIST
1241	274475.04	8665686.2	84.173	PIST
1242	274474.9	8665684.8	84.277	VERD
1243	274471.71	8665683.5	84.297	ESQ
1244	274463.35	8665693.1	84.092	PC
1245	274471.9	8665753.9	84.861	BM8
1246	274471.08	8665744.2	84.933	PIST
1247	274465.68	8665745.1	84.878	PIST
1248	274469.9	8665731.4	84.704	PIST
1249	274463.73	8665716	84.445	PIST
1250	274469.63	8665715.9	84.474	PIST
1251	274472.55	8665715.8	84.632	LP
1252	274471.16	8665715.8	84.634	VERD
1253	274463.56	8665704.5	84.253	PIST
1254	274469.81	8665706.1	60.073	PIST
1255	274468.87	8665700.5	60.033	LGAS
1256	274466.49	8665690.3	84.205	LGAS
1257	274455.08	8665645.3	83.887	ESQ
1258	274458.27	8665647.9	83.71	PIST
1259	274447.95	8665644.5	83.743	PL
1260	274442.54	8665642.4	83.4	PIST
1261	274443.08	8665646.7	83.694	LP
1262	274442.82	8665644.8	83.461	VERD
1263	274440.8	8665633.5	83.317	PIST
1264	274442.26	8665641.8	83.405	LGAS
1265	274439.55	8665627.7	83.475	VERD

3668	274281.59	8665780.2	82.054	PIST
3669	274277.15	8665779.8	81.976	PIST
3670	274277.88	8665781	81.982	PC
3671	274312.85	8665783.9	82.559	VERD
3672	274312.27	8665779.6	82.518	PIST
3673	274333.4	8665775.1	82.829	PIST
3674	274334.45	8665777.9	82.86	VERD
3675	274334.77	8665779.2	83.022	VERD
3676	274334.77	8665779.2	82.986	LP
3677	274349.7	8665773.7	83.25	VERD
3678	274350.14	8665774.9	83.27	LP
3679	274349.44	8665771.8	83.085	PIST
3680	274368.03	8665767.9	83.37	PIST
3681	274367.99	8665769.5	83.472	VERD
3682	274368.19	8665770.8	83.601	LP
3683	274379.13	8665769	83.774	LP
3684	274392.14	8665767.7	83.908	ESQ
3685	274392.02	8665766.3	83.861	VERD
3686	274392.08	8665765.2	83.765	PIST
3687	274393.68	8665766	83.829	VERD
3688	274394.65	8665766.9	83.832	VERD
3689	274393.52	8665769.2	83.943	ESQ
3690	274394.38	8665773.2	83.894	ESQ
3691	274395.9	8665773.5	83.758	VERD
3692	274392.07	8665780.3	83.66	VERD
3693	274389.47	8665781.3	83.788	LP
3694	274392.9	8665784.6	83.701	ESQ
3695	274394.83	8665781.3	83.742	ESQ
3696	274403.78	8665779.2	83.946	PL
3697	274407.66	8665778.7	83.764	LP
3698	274408.3	8665777	83.874	VERD
3699	274407.98	8665776.4	83.885	LGAS
3700	274397.07	8665778.7	83.76	LGAS
3701	274414.24	8665775.7	83.944	PIST
3702	274414.86	8665775.6	83.568	LP
3703	274417.22	8665773.1	83.758	PL
3704	274460.64	8665764.9	84.675	LP
3705	274397.71	8665695.8	82.845	PIST
3706	274397.55	8665694.3	82.828	VERD
3707	274397.26	8665692.9	83.064	ESQ
3708	274382.5	8665694.8	82.813	LP
3709	274383.38	8665700.6	82.632	BZ

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1266	274435.11	8665647.7	83.55	LP
1267	274438.73	8665625.8	83.622	LP
1268	274428.04	8665646.4	83.418	PT
1269	274427.21	8665648.7	83.425	LP
1270	274426.91	8665646.8	83.376	VERD
1271	274425.89	8665629.4	83.245	VERD
1272	274425.36	8665627.5	83.413	VERD
1273	274426.86	8665644.4	83.139	PIST
1274	274426.49	8665635.3	83.138	PIST
1275	274427.08	8665643.7	83.154	LGAS
1276	274419.22	8665649.7	83.284	LP
1277	274407.63	8665637.6	82.807	PIST
1278	274415.73	8665648.8	83.228	PL
1279	274407.18	8665631.7	82.945	VERD
1280	274410.08	8665648.9	83.112	VERD
1281	274406.7	8665629.7	83.096	VERD
1282	274409.83	8665646.5	82.87	PIST
1283	274404.88	8665629.6	83.078	ESQ
1284	274405.63	8665635.9	83.054	ESQ
1285	274405.35	8665649.2	82.791	PIST
1286	274407.27	8665651.2	83.09	ESQ
1287	274405.63	8665637.8	82.804	PIST
1288	274406.48	8665646.3	82.85	LGAS
1289	274396.19	8665638.7	82.889	GRIF
1290	274400.72	8665645.1	82.748	BZ
1291	274396.27	8665639.5	82.666	VAL
1292	274393.25	8665639.4	82.637	PIST
1293	274395.53	8665652.7	82.945	ESQ
1294	274396.31	8665650	82.681	PIST
1295	274391.97	8665648.7	82.591	PIST
1296	274380.71	8665639.1	82.646	LP
1297	274380.99	8665641	82.451	VERD
1298	274392.25	8665651.1	82.778	VERD
1299	274383.63	8665652.6	82.672	PL
1300	274381.56	8665652.1	82.594	PT
1301	274368.07	8665642.6	82.254	PIST
1302	274377.54	8665654.8	82.609	LP
1303	274369.63	8665655.8	82.428	LP
1304	274369.43	8665654	82.277	VERD
1305	274369.23	8665651.5	82.227	PIST
1306	274369.2	8665650.9	82.224	LGAS
1307	274352.11	8665644.6	82.011	PIST

3710	274374.59	8665695.8	82.687	LP
3711	274366.6	8665696.8	82.577	LP
3712	274366.94	8665698.1	82.555	VERD
3713	274366.98	8665699.5	82.365	PIST
3714	274358.69	8665697.7	82.454	LP
3715	274350.79	8665698.8	82.335	LP
3716	274347.15	8665699.2	82.287	LP
3717	274342.63	8665699.7	82.233	LP
3718	274334.85	8665700.7	82.12	LP
3719	274335.13	8665702.1	82.09	VERD
3720	274335.72	8665703.8	81.895	PIST
3721	274326.94	8665701.7	81.995	LP
3722	274318.99	8665702.7	81.881	LP
3723	274311.09	8665703.7	81.755	LP
3724	274303.16	8665704.7	81.64	LP
3725	274303.27	8665705.9	81.614	VERD
3726	274295.2	8665705.7	81.526	LP
3727	274287.24	8665706.6	81.403	LP
3728	274269.39	8665709.1	81.094	ESQ
3729	274268	8665710	80.843	PIST
3730	274272.6	8665709.7	81.145	VERD
3731	274269.2	8665719.8	80.973	PIST
3732	274270.78	8665720.6	81.184	ESQ
3733	274273.53	8665718.9	81.184	VERD
3734	274273.32	8665717.4	80.983	PIST
3735	274264.33	8665715.3	80.918	BZ
3736	274280.64	8665718.1	81.324	PL
3737	274280.93	8665715.5	81.09	LGAS
3738	274288.69	8665718.3	81.425	LP
3739	274296.63	8665717.4	81.608	LP
3740	274304.55	8665716.4	81.764	LP
3741	274312.48	8665715.4	81.771	LP
3742	274312.33	8665714	81.771	VERD
3743	274312.09	8665712.5	81.538	PIST
3744	274312.16	8665711.7	81.54	LGAS
3745	274317.33	8665713.6	81.838	PL
3746	274328.4	8665713.4	81.993	LP
3747	274336.32	8665712.4	82.099	LP
3748	274344.22	8665711.5	82.222	LP
3749	274352.14	8665710.4	82.364	LP
3750	274353.4	8665709.3	82.371	PL
3751	274354.9	8665708.6	82.199	VERD

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1308	274361.65	8665656.8	82.307	LP
1309	274353.72	8665657.8	82.192	LP
1310	274353.71	8665656.3	82.147	VERD
1311	274353.43	8665653.5	81.965	PIST
1312	274335.97	8665646.5	81.729	PIST
1313	274353.45	8665652.8	81.971	LGAS
1314	274336.09	8665644.6	81.929	VERD
1315	274345.83	8665658.7	82.049	LP
1316	274345.75	8665656.7	81.841	PT
1317	274328.1	8665647.4	81.593	PIST
1318	274337.88	8665659.8	81.942	LP
1319	274329.76	8665656.3	81.592	PIST
1320	274329.95	8665655.7	81.633	LGAS
1321	274329.88	8665660.4	81.83	LP
1322	274329.03	8665654.1	81.641	BZ
1323	274334.27	8665664.6	82.779	VERD
1324	274321.99	8665661.7	81.716	LP
1325	274294.34	8665651.4	81.078	PIST
1326	274314.06	8665662.7	81.584	LP
1327	274306.12	8665663.6	81.464	LP
1328	274294	8665649.5	81.271	ESQ
1329	274298.2	8665664.5	81.33	LP
1330	274290.32	8665650.3	80.996	PIST
1331	274292.35	8665650.5	81.253	PC
1332	274403.54	8665639	82.769	PC
1333	274404.66	8665654.7	82.791	PIST
1334	274406.08	8665654.4	82.806	VERD
1335	274398.78	8665655.4	82.744	PIST
1336	274397.33	8665655.5	82.794	VERD
1337	274397.01	8665655.8	82.975	PL
1338	274396.89	8665663.7	83.02	LP
1339	274402.41	8665693.6	82.915	LP
1340	274409.46	8665669.2	83.109	LP
1341	274408	8665669.5	82.749	VERD
1342	274406.62	8665669.8	82.791	PIST
1343	274400.68	8665670.7	82.809	PIST
1344	274399.42	8665672.4	82.854	VERD
1345	274398.09	8665672.6	83.079	LP
1346	274410.14	8665676.1	83.107	LP
1347	274399.16	8665681.5	83.088	LP
1348	274401.09	8665688.5	83.124	PL
1349	274400.06	8665689.7	83.132	ESQ

3752	274354.71	8665707.3	82.165	PIST
3753	274354.56	8665706.4	82.163	LGAS
3754	274360.09	8665709.5	82.462	LP
3755	274368.12	8665708.4	82.596	LP
3756	274375.95	8665707.4	82.706	LP
3757	274375.69	8665706.1	82.686	VERD
3758	274375.38	8665704.7	82.475	PIST
3759	274375.42	8665703.9	82.477	LGAS
3760	274383.92	8665706.5	82.839	LP
3761	274390.25	8665704.6	82.956	PL
3762	274398.32	8665703.1	82.822	VERD
3763	274398.19	8665701.7	82.868	PIST
3764	274291.21	8665790	82.087	PIST
3765	274300.22	8665787.7	82.327	PIST
3766	274300.56	8665789.2	82.428	ESQ
3767	274298.13	8665792.1	82.359	ESQ
3768	274296.87	8665795.5	82.347	ESQ
3769	274294.33	8665795.3	82.391	ESQ
3770	274292.33	8665792.4	82.254	ESQ
3771	274290.51	8665791.3	82.27	ESQ
3772	274284.97	8665789	82.195	ESQ
3773	274282.6	8665788.6	82.181	ESQ
3774	274282.25	8665787.3	81.975	VERD
3775	274285.37	8665787.7	81.997	VERD
3776	274264.46	8665754.1	81.399	VERD
3777	274263	8665754	81.633	VERD
3778	274266.01	8665755.5	81.456	PIST
3779	274320.75	8665782.8	82.851	BZ
3780	274318.09	8665784.3	82.816	LP
3781	274317.29	8665783	82.68	VERD
3782	274267.23	8665777	81.856	PIST
3783	274265.81	8665777.1	81.95	VERD
3784	274267.31	8665777	81.863	VERD
3785	274268.76	8665776.9	81.844	PIST
3786	274268.16	8665782.2	81.871	PIST
3787	274264.89	8665785.6	81.86	PIST
3788	274264.28	8665784.3	81.926	VERD
3789	274263.66	8665783	82.019	VERD
3790	274266.25	8665781.8	81.972	ESQ
3791	274274.95	8665788.7	81.917	VERD
3792	274274.84	8665788.1	81.904	PIST
3793	274274.01	8665788.2	81.954	BZ

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1350	274401.37	8665689.2	82.885	VERD
1351	274402.88	8665689.1	82.907	PIST
1352	274409.05	8665760.1	83.984	PC
1353	274402.14	8665693	82.88	PIST
1354	274408.84	8665753.1	83.882	PIST
1355	274403.94	8665691.8	82.911	LGAS
1356	274411.38	8665747.6	83.772	BZ
1357	274409.16	8665747.9	83.786	LGAS
1358	274402.13	8665675.3	82.813	LGAS
1359	274401.42	8665669.8	82.823	LGAS
1360	274407.1	8665733.6	83.366	PIST
1361	274405.82	8665733.2	83.585	VERD
1362	274404.51	8665733.3	83.608	LP
1363	274403.57	8665725.4	83.477	LP
1364	274404.12	8665719.4	83.402	PL
1365	274402.82	8665717.3	83.371	LP
1366	274404.19	8665717.2	83.172	VERD
1367	274405.66	8665717	83.166	PIST
1368	274406.32	8665717.1	83.176	LGAS
1369	274404.77	8665707	83.06	PIST
1370	274403.59	8665704.1	83.043	PIST
1371	274401.59	8665704.4	83.228	ESQ
1372	274399.37	8665701.8	82.948	PIST
1373	274406.87	8665697.8	82.995	BZ
1374	274403.33	8665707.2	82.998	VERD
1375	274255.48	8665665.8	80.501	PC
1376	274313.72	8665660.3	81.371	PT
1377	274315.25	8665660.8	81.589	PL
1378	274313.56	8665660.8	81.348	VERD
1379	274306.07	8665663.7	81.442	LP
1380	274298.17	8665664.4	81.311	LP
1381	274296.76	8665659.6	81.103	LGAS
1382	274290.17	8665665.2	81.182	LP
1383	274289.02	8665647.2	80.932	PIST
1384	274291.41	8665646.8	81.012	VERD
1385	274289.79	8665663.3	80.943	VERD
1386	274291.54	8665635.6	81.113	LP
1387	274289.7	8665636.1	80.877	VERD
1388	274286.19	8665665.6	81.136	LP
1389	274287.18	8665636.2	80.853	PIST
1390	274280.71	8665637.8	80.814	PIST
1391	274278.65	8665638.1	80.859	VERD

3794	274271.6	8665790.9	82.079	LP
3795	274254.15	8665793.9	81.789	LGAS
3796	274267.9	8665792.7	82.083	LP
3797	274253.74	8665792.6	81.758	PIST
3798	274267.11	8665791.1	81.859	PIST
3799	274267.19	8665791.4	81.857	VERD
3800	274253.29	8665792	81.86	PT
3801	274264.11	8665794.2	82.054	PL
3802	274253.07	8665791.2	81.805	VERD
3803	274257.35	8665799.3	81.818	VERD
3804	274255.97	8665800	81.829	PIST
3805	274255.17	8665799.3	81.821	PIST
3806	274258.42	8665800.3	81.977	ESQ
3807	274252.06	8665790.1	81.939	VERD
3808	274248.91	8665809	81.718	VERD
3809	274241.89	8665811.5	81.628	VERD
3810	274242.1	8665802.8	81.664	LGAS
3811	274241.89	8665811.5	81.625	PIST
3812	274241.6	8665802.3	81.665	PIST
3813	274241.17	8665814.6	81.588	PIST
3814	274240.85	8665801.2	81.643	VERD
3815	274243.05	8665817	81.592	PIST
3816	274243.57	8665813.5	81.77	PL
3817	274236.46	8665802	81.721	VERD
3818	274244.75	8665815.6	81.747	BZT
3819	274234.29	8665803.4	81.541	PIST
3820	274229.79	8665799.5	81.354	PIST
3821	274231.25	8665798.8	81.389	VERD
3822	274227.46	8665800.2	81.376	BZ
3823	274232.32	8665798	81.492	VERD
3824	274243.87	8665811.3	81.787	PC
3825	274220.3	8665779.6	80.908	VERD
3826	274221.79	8665779.3	80.998	VERD
3827	274219.09	8665780.1	80.886	PIST
3828	274230.79	8665810	81.494	LGAS
3829	274227.21	8665808.3	81.451	PIST
3830	274225.2	8665811.1	81.446	PIST
3831	274225.6	8665803.8	81.381	PIST
3832	274224.47	8665804.8	81.591	VERD
3833	274223.82	8665804.5	81.591	PL
3834	274223.28	8665805.6	81.611	ESQ
3835	274215.56	8665779.4	80.918	BZ

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1392	274282.14	8665665.8	81.066	LP
1393	274282.16	8665664.1	81.051	PL
1394	274277.14	8665645.4	80.786	VERD
1395	274278.83	8665646.4	80.778	PIST
1396	274274.15	8665666.2	80.95	LP
1397	274269.02	8665650.9	80.725	VERD
1398	274274.12	8665664.3	80.774	VERD
1399	274269.22	8665652.8	80.654	PIST
1400	274268.51	8665661.9	80.655	PIST
1401	274274.97	8665653.3	80.758	LGAS
1402	274268.84	8665660.5	80.663	LGAS
1403	274282.61	8665643.8	80.842	LGAS
1404	274262.36	8665664.5	80.558	PIST
1405	274261.22	8665661	80.548	LGAS
1406	274263.42	8665653.1	80.577	PIST
1407	274258.88	8665663.5	80.512	LGAS
1408	274263.66	8665654.2	80.59	LGAS
1409	274257.31	8665659.8	80.551	BZ
1410	274254.49	8665654.5	80.492	LGAS
1411	274256.11	8665668.1	80.492	PIST
1412	274253.32	8665653.3	80.448	PIST
1413	274253.41	8665651.2	80.46	VERD
1414	274255.31	8665669.3	80.549	VERD
1415	274253.32	8665664	80.467	PIST
1416	274248.92	8665662.4	80.382	PIST
1417	274265.86	8665651	80.735	VERD
1418	274248.97	8665664.7	80.448	VERD
1419	274274.68	8665648.2	80.776	VERD
1420	274248.06	8665665.1	80.655	PL
1421	274252.11	8665666.7	80.697	ESQ
1422	274231.02	8665653.6	80.295	PIST
1423	274239.62	8665666.9	80.662	LP
1424	274230.93	8665651.6	80.345	VERD
1425	274231.22	8665662.7	80.307	PIST
1426	274215.62	8665667.3	80.411	LP
1427	274196.88	8665654.1	80.053	PIST
1428	274212.25	8665665.4	80.359	VERD
1429	274196.65	8665652.1	80.313	VERD
1430	274208.79	8665665	80.122	PT
1431	274212.52	8665665.9	80.37	PL
1432	274197.04	8665665.7	80.082	VERD
1433	274197.01	8665663.3	80.037	PIST

3836	274213.29	8665790.3	81.322	LP
3837	274214.51	8665789.6	81.294	VERD
3838	274215.8	8665788.9	81.076	PIST
3839	274210.78	8665774.3	80.757	PIST
3840	274216.53	8665788.6	81.117	LGAS
3841	274211.57	8665774.2	80.867	LGAS
3842	274209.6	8665775.8	81.016	PL
3843	274276.63	8665779.5	81.901	BM9
3844	274223.61	8665811.7	81.407	PIST
3845	274223.1	8665810.5	81.606	VERD
3846	274223.05	8665807.9	81.616	ESQ
3847	274220.48	8665811.4	81.564	PT
3848	274234.42	8665812.3	81.509	BZ
3849	274233.81	8665814	81.474	LGAS
3850	274221.2	8665813.5	81.376	LGAS
3851	274234.24	8665820.5	81.434	PIST
3852	274233.87	8665821.4	81.529	VERD
3853	274233.81	8665822.8	81.605	LP
3854	274199.74	8665817.3	81.362	LP
3855	274224.76	8665822	81.503	LP
3856	274224.17	8665820.6	81.352	VERD
3857	274223.89	8665819.6	81.348	PIST
3858	274192.19	8665820.1	81.226	LP
3859	274214.71	8665824	81.364	LP
3860	274215.1	8665822.3	81.235	VERD
3861	274192.69	8665821.4	81.12	VERD
3862	274214.73	8665821.4	81.272	PIST
3863	274193.32	8665822.8	81.072	PIST
3864	274214.64	8665822.7	81.373	PL
3865	274197.76	8665830.1	81.183	LP
3866	274184.71	8665822.8	81.166	LP
3867	274196.36	8665829.1	81.014	VERD
3868	274195.76	8665828.2	81.02	PIST
3869	274177.21	8665825.6	81.088	LP
3870	274182.01	8665834.5	81.052	PL
3871	274169.64	8665828.2	81.005	LP
3872	274175.93	8665838.3	80.954	ESQ
3873	274171.08	8665829.3	80.866	VERD
3874	274176.19	8665836.5	80.878	VERD
3875	274175.67	8665835.5	80.81	PIST
3876	274171.73	8665830.5	80.787	PIST
3877	274172.13	8665831.3	80.793	LGAS

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1434	274193.44	8665664.6	80.019	PIST
1435	274207.58	8665667.4	80.347	LP
1436	274191.44	8665667.8	80.024	PIST
1437	274194.03	8665667.7	80.214	ESQ
1438	274182.14	8665667.8	80.222	ESQ
1439	274184.39	8665666.1	80.019	PIST
1440	274181.86	8665663.9	79.998	PIST
1441	274179.26	8665663.4	79.97	PIST
1442	274179.1	8665665.8	80.031	VERD
1443	274186.85	8665662.7	80.018	LGAS
1444	274187.76	8665660.9	80.032	BZ
1445	274179.37	8665654.3	79.955	PIST
1446	274179.1	8665652.3	80.123	VERD
1447	274179.13	8665665.3	79.991	PT
1448	274177.94	8665666	80.169	PL
1449	274171.13	8665667.6	80.118	LP
1450	274163.15	8665667.1	80.061	LP
1451	274164.24	8665653.9	79.855	PIST
1452	274163.18	8665665.2	79.921	VERD
1453	274164.2	8665651.7	80.094	VERD
1454	274153.75	8665664.1	79.959	PT
1455	274144.96	8665663.7	79.91	PL
1456	274142.7	8665663	79.897	VERD
1457	274135.79	8665662.4	79.635	PIST
1458	274142.93	8665660.5	79.671	PIST
1459	274138.88	8665660.4	79.632	PIST
1460	274134.7	8665664.8	79.594	PIST
1461	274138.8	8665659.4	79.665	LGAS
1462	274134.87	8665661.9	79.626	LGAS
1463	274133.92	8665664.8	79.615	LGAS
1464	274133.89	8665656.6	79.62	BZ
1465	274127.75	8665664.6	79.619	PIST
1466	274125.14	8665664.1	79.647	PIST
1467	274136.73	8665663.7	79.887	BZT
1468	274125.76	8665661.6	79.68	PIST
1469	274127.26	8665660.7	79.655	PIST
1470	274128.38	8665661.9	79.66	PIST
1471	274139.29	8665664.5	79.897	ESQ
1472	274118.32	8665664.6	79.648	PIST
1473	274118.51	8665659.1	79.582	PIST
1474	274112.21	8665655.8	79.411	PIST
1475	274111.82	8665658.2	79.403	VERD

3878	274170.57	8665829.7	80.879	PT
3879	274162.89	8665842.3	80.682	PIST
3880	274168.67	8665834.2	80.753	BZ
3881	274162.12	8665831	80.909	LP
3882	274159.51	8665841.5	80.661	PIST
3883	274159.24	8665843.4	80.817	PIST
3884	274162.1	8665831	80.899	LP
3885	274154.64	8665833.9	80.828	LP
3886	274146.21	8665836.9	80.748	LP
3887	274155.11	8665835.1	80.754	VERD
3888	274139.58	8665839.2	80.608	LP
3889	274155.69	8665836.5	80.628	PIST
3890	274155.79	8665837.2	80.595	LGAS
3891	274156.39	8665838.3	80.626	LGAS
3892	274132.34	8665845	80.373	PIST
3893	274131.53	8665843.5	80.586	VERD
3894	274132.69	8665843.3	80.496	PL
3895	274123.5	8665844.8	80.466	LP
3896	274248.12	8665815.5	81.667	VERD
3897	274243.13	8665817.6	81.595	LGAS
3898	274249.32	8665821.3	81.718	LGAS
3899	274251.77	8665822	81.748	VERD
3900	274253.06	8665820.4	81.775	VERD
3901	274251.17	8665820.1	81.89	PL
3902	274250.9	8665822.5	81.75	LGAS
3903	274241.78	8665825.7	81.733	LP
3904	274253.68	8665819.8	81.795	LGAS
3905	274266.66	8665814.9	81.996	LGAS
3906	274272.79	8665816.7	82.21	ESQ
3907	274266.65	8665818.6	81.994	ESQ
3908	274262.65	8665822.4	81.92	ESQ
3909	274261.43	8665827.3	82.058	ESQ
3910	274242.75	8665824.7	81.573	VERD
3911	274262.67	8665830.6	81.922	VERD
3912	274243.27	8665823.7	81.562	PIST
3913	274261.86	8665831.3	81.933	PIST
3914	274261.53	8665832	81.936	LGAS
3915	274251.31	8665832.7	81.908	ESQ
3916	274248.11	8665836.4	81.981	ESQ
3917	274252.31	8665831.7	81.891	VERD
3918	274253.01	8665831.1	81.782	PIST
3919	274273.58	8665839.4	82.275	LP

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1476	274112.58	8665660.2	79.683	ESQ
1477	274114.14	8665662.5	79.795	ESQ
1479	274185.76	8665667.1	80.016	PC
1480	274269.71	8665664	80.693	PT
1481	274264.12	8665666.6	80.736	ESQ
1482	274267.09	8665664.5	80.683	VERD
1483	274261.52	8665669.8	80.533	PIST
1484	274255.26	8665669.4	80.499	PIST
1485	274253.93	8665669.5	80.51	VERD
1486	274263.05	8665669.7	80.739	VERD
1487	274263.59	8665671.5	80.784	PL
1488	274256.65	8665681.2	80.588	PIST
1489	274262.98	8665680.4	80.614	PIST
1490	274264.2	8665680.1	80.589	VERD
1491	274255.44	8665681.3	80.792	VERD
1492	274265.71	8665680	80.831	LP
1493	274266.78	8665688.9	80.902	LP
1494	274267.86	8665697.9	80.99	LP
1495	274259.97	8665707.3	80.715	PIST
1496	274265.94	8665706.4	80.791	PIST
1497	274268.22	8665705.7	81.068	PL
1498	274269.2	8665708.4	81.1	ESQ
1499	274262.07	8665724.3	80.941	PIST
1500	274264.24	8665715.4	80.917	BZ
1501	274268.19	8665724	80.971	PIST
1502	274269.64	8665719.5	80.926	PIST
1503	274269.72	8665723.8	81.108	VERD
1504	274270.68	8665720.7	81.194	ESQ
1505	274272.19	8665732.6	81.38	LP
1506	274273.19	8665740.6	81.502	LP
1507	274264.23	8665740.8	81.217	PIST
1508	274272.19	8665740.3	81.514	PL
1509	274269.54	8665741.2	81.269	LGAS
1510	274271.79	8665740.9	81.357	VERD
1511	274270.43	8665741	81.269	PIST
1512	274274.21	8665748.4	81.686	LP
1513	274275.19	8665756.5	81.829	LP
1514	274276.16	8665764.4	81.958	LP
1515	274273.3	8665764.5	81.683	PIST
1516	274271.54	8665772.3	81.806	BZ
1517	274274.5	8665775.3	81.876	PIST
1518	274276.18	8665775.1	81.821	VERD

3920	274272.08	8665839.9	82.143	VERD
3921	274273.22	8665842.2	82.146	PIST
3922	274271.65	8665842.5	82.142	LGAS
3923	274253.39	8665839.6	81.877	PIST
3924	274253.82	8665840.6	82.055	PL
3925	274260.9	8665828.2	81.886	VERD
3926	274264.42	8665852.7	82.258	ESQ
3927	274265.53	8665853.7	82.283	ESQ
3928	274266.52	8665852.6	82.157	PIST
3929	274270.63	8665858.9	82.345	ESQ
3930	274281.81	8665847.4	82.414	ESQ
3931	274280.69	8665846.3	82.421	ESQ
3932	274274.97	8665861.4	82.447	PL
3933	274280.5	8665848.2	82.221	VERD
3934	274280.67	8665849.4	82.231	PIST
3935	274279.03	8665867.5	82.476	LP
3936	274280.22	8665866.2	82.398	PIST
3937	274299.44	8665864.8	82.764	LP
3938	274284.35	8665872.2	82.699	LP
3939	274298.85	8665866.1	82.722	VERD
3940	274289.51	8665877.4	82.737	LP
3941	274298.03	8665866.8	82.635	PIST
3942	274289.49	8665877.4	82.715	LP
3943	274297.51	8665867.6	82.698	LGAS
3944	274295	8665882.9	82.883	LP
3945	274297.01	8665883.1	82.941	PL
3946	274315.29	8665880.6	83.144	LP
3947	274314.7	8665881.7	83.071	VERD
3948	274298.47	8665884.2	82.853	PIST
3949	274324.33	8665890.9	83.348	PL
3950	274304.17	8665882.2	82.841	PIST
3951	274308.02	8665885.3	82.9	PIST
3952	274307.76	8665893.5	83.013	PIST
3953	274325.96	8665905.7	83.481	PC
3954	274201.29	8665763.4	80.444	VERD
3955	274201.82	8665764.6	80.444	PIST
3956	274201.76	8665765.4	80.468	LGAS
3957	274203.09	8665769.7	80.514	LGAS
3958	274203.24	8665770.6	80.494	PIST
3959	274184.87	8665767.9	80.446	LP
3960	274203.81	8665771.9	80.532	VERD
3961	274185.43	8665769.2	80.249	VERD

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1519	274276.29	8665773.8	82.166	PL
1520	274277.95	8665777.9	82.222	ESQ
1521	274274.6	8665775.2	81.968	PIST
1522	274274.07	8665788.3	81.958	BZ
1523	274277.7	8665778.6	82.213	PC
1524	274279.11	8665786.7	81.973	PC
1525	274269.37	8665709.7	81.103	PC
1526	274185.39	8665670.6	80.008	PIST
1527	274191.13	8665671	80.035	PIST
1528	274192.65	8665670.9	80.035	VERD
1529	274183.77	8665670.8	80.18	VERD
1530	274183.88	8665675.7	80.228	PL
1531	274184.44	8665690.2	80.264	LP
1532	274195.73	8665685.7	80.185	LP
1533	274187.27	8665689.4	80.061	PIST
1534	274193.31	8665688.3	80.024	PIST
1535	274194.63	8665688.2	80.067	VERD
1536	274185.37	8665686.8	80.171	VERD
1537	274189.04	8665695.6	80.092	LGAS
1538	274197.23	8665701.4	80.384	VERD
1539	274198.65	8665701.3	80.407	VERD
1540	274191.09	8665708.7	80.067	PIST
1541	274197.43	8665708.1	80.115	PIST
1542	274189.78	8665709	80.145	VERD
1543	274189.34	8665708.6	80.322	PL
1544	274196.51	8665716.5	80.197	BZ
1545	274189.19	8665712.4	80.312	ESQ
1546	274189.62	8665714.3	80.103	PIST
1547	274191.8	8665721.6	80.109	PIST
1548	274201.3	8665721.4	80.133	PIST
1549	274194.83	8665723.3	80.124	PIST
1550	274196.09	8665725.8	80.21	PIST
1551	274202.66	8665721.1	80.507	VERD
1552	274203.99	8665720.8	80.502	VERD
1553	274194.81	8665726.3	80.248	VERD
1554	274196.93	8665725.6	80.245	LGAS
1555	274195.14	8665719.2	80.172	LGAS
1556	274192.52	8665723.8	80.411	ESQ
1557	274195.75	8665734.4	80.494	LP
1558	274198.04	8665742	80.567	LP
1559	274199.35	8665741.7	80.361	VERD
1560	274200.66	8665741.4	80.362	PIST

3962	274193.7	8665776	80.578	PL
3963	274185.81	8665769.7	80.235	PT
3964	274188.38	8665779.1	80.474	LP
3965	274175.1	8665771.2	80.145	LP
3966	274180.36	8665781.8	80.332	LP
3967	274172.28	8665773.5	80.202	VERD
3968	274177.14	8665781.4	80.098	VERD
3969	274172.9	8665774.6	80.079	PIST
3970	274175.46	8665780.3	80.079	PIST
3971	274173.58	8665775.3	80.067	LGAS
3972	274185.19	8665774	80.237	BZ
3973	274164.02	8665784	80.227	VERD
3974	274165.28	8665773.3	80.284	LP
3975	274165.51	8665776	79.984	PIST
3976	274164.45	8665782.7	79.966	PIST
3977	274165.4	8665776.4	79.974	LGAS
3978	274159.02	8665784.6	80.122	PL
3979	274165.24	8665774.5	80.011	VERD
3980	274156.42	8665785.9	80.174	LP
3981	274186.7	8665715.9	80.037	PIST
3982	274189.15	8665723.1	80.23	VERD
3983	274188.88	8665721.6	80.041	PIST
3984	274190.1	8665713.8	80.089	PIST
3985	274188.62	8665720.8	80.061	LGAS
3986	274189.11	8665712.4	80.302	ESQ
3987	274186.37	8665714.5	80.093	VERD
3988	274172.41	8665726.7	80.048	LP
3989	274178.29	8665714.3	80.151	LP
3990	274169.09	8665725.4	79.861	VERD
3991	274176.06	8665715.8	80.151	PL
3992	274168.9	8665724.1	79.804	PIST
3993	274168.87	8665723.1	79.807	LGAS
3994	274173.38	8665716.3	80.04	VERD
3995	274173.55	8665717.6	79.871	PIST
3996	274173.57	8665717.6	79.87	PIST
3997	274173.65	8665717.9	79.891	LGAS
3998	274163.49	8665726.7	80.032	LP
3999	274168.27	8665715.1	80.032	LP
4000	274154.53	8665726.1	79.882	LP
4001	274158.34	8665714.7	79.932	LP
4002	274161.32	8665725.3	79.864	VERD
4003	274158.77	8665716.1	79.941	VERD

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1561	274200.33	8665749.7	80.635	LP
1562	274204.34	8665757.5	80.506	VERD
1563	274211.39	8665745	80.709	VERD
1564	274205.53	8665757.2	80.47	PIST
1565	274205.79	8665760.2	80.48	PIST
1566	274207.59	8665763.3	80.587	LGAS
1567	274203.63	8665760.8	80.712	ESQ
1568	274209.01	8665767.7	80.677	LGAS
1569	274204.53	8665762.9	80.466	PIST
1570	274207.09	8665772.3	80.88	ESQ
1571	274206.34	8665770.3	80.583	PIST
1572	274210.81	8665774.3	80.779	PIST
1573	274209.29	8665774.7	80.822	VERD
1574	274206.34	8665770.3	80.566	VERD
1575	274209.43	8665776	81.027	PL
1576	274208.95	8665771.7	80.666	PIST
1577	274210.31	8665782.7	81.184	LP
1578	274213.65	8665781.6	80.94	LGAS
1579	274213.66	8665791.1	81.349	LP
1580	274211.68	8665782.4	80.95	VERD
1581	274216.17	8665790	81.088	PIST
1582	274207.49	8665771.6	80.856	PC
1583	274193.13	8665721.3	80.144	PC
1584	274239.59	8665666.9	80.594	LP
1585	274231.57	8665667	80.539	LP
1586	274139.37	8665650.9	79.651	PIST
1587	274134.67	8665647.9	79.577	PIST
1588	274131.15	8665639	79.408	PIST
1589	274133.87	8665656.6	79.634	BZ
1590	274136.64	8665667	79.84	VERD
1591	274134.8	8665675.5	79.837	PL
1592	274118.04	8665645.5	79.692	ESQ
1593	274132.33	8665674.7	79.558	PIST
1594	274131.66	8665674.6	79.634	LGAS
1595	274130.49	8665682.2	79.576	PIST
1596	274124.09	8665680.5	79.575	PIST
1597	274121.48	8665679.9	79.743	PIST
1598	274133.03	8665682.5	79.766	VERD
1599	274134.9	8665683	79.828	LP
1600	274133.07	8665690.8	79.795	LP
1601	274131.96	8665695.7	79.763	LP
1602	274125.21	8665704.9	79.52	PIST

4004	274161.55	8665724	79.729	PIST
4005	274158.71	8665717.6	79.711	PIST
4006	274161.29	8665722.9	79.77	LGAS
4007	274158.6	8665717.8	79.748	LGAS
4008	274158.14	8665719.8	79.73	BZ
4009	274564.7	8665908.1	86.866	ESQ
4010	274565.43	8665911.3	86.888	ESQ
4011	274562.94	8665910.3	86.704	VERD
4012	274562.3	8665906.9	86.687	VERD
4013	274561.85	8665904.4	86.691	PIST
4014	274557.2	8665907.4	86.635	BZT
4015	274553.84	8665903.2	86.587	BZ
4016	274557.43	8665911.1	86.63	PL
4017	274551.72	8665913.9	86.719	PL
4018	274551.43	8665913.9	86.715	ESQ
4019	274550.32	8665914.1	86.697	ESQ
4020	274549.47	8665905.9	86.555	LGAS
4021	274543.41	8665901.4	86.516	PIST
4022	274547.13	8665898.4	86.559	PIST
4023	274547.52	8665893.6	86.511	PIST
4024	274545.14	8665894	86.537	VERD
4025	274544.55	8665890.1	86.631	PL
4026	274544.1	8665898.3	86.558	ESQ
4027	274543.13	8665900.1	86.545	VERD
4028	274553.48	8665892.7	86.584	PIST
4029	274554.58	8665892.5	86.524	VERD
4030	274555.88	8665897.3	86.64	PIST
4031	274560.58	8665898.5	86.687	PIST
4032	274560.46	8665897.5	86.774	VERD
4033	274560.25	8665896.1	86.779	ESQ
4034	274557.08	8665895.2	86.599	ESQ
4035	274548.43	8665894.9	86.539	LGAS
4036	274549.28	8665901.2	86.596	LGAS
4037	274531.13	8665900.1	86.516	LP
4038	274530.92	8665901.6	86.401	VERD
4039	274531.04	8665903.3	86.368	PIST
4040	274531.17	8665904	86.349	LGAS
4041	274521.07	8665901.2	86.418	LP
4042	274511.02	8665902.2	86.279	LP
4043	274503.68	8665903.9	86.21	PL
4044	274497.91	8665903.3	86.128	ESQ
4045	274496.69	8665904.9	85.998	PIST

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1603	274118.69	8665703.5	79.534	PIST
1604	274124.67	8665704.8	79.542	LGAS
1605	274116.14	8665702.7	79.86	PIST
1606	274127.7	8665705.5	79.566	VERD
1607	274128.25	8665703.9	79.738	PL
1608	274128.93	8665708.9	79.753	ESQ
1609	274120.74	8665713	79.56	BZ
1610	274126.16	8665720.5	79.738	ESQ
1611	274115.13	8665719.4	79.492	PIST
1612	274126.82	8665717.7	79.534	PIST
1613	274128.25	8665711.7	79.51	PIST
1614	274112.45	8665718.6	79.974	PIST
1615	274125.97	8665709.5	79.51	PIST
1616	274122.33	8665719.8	79.505	PIST
1617	274121.97	8665731.7	79.699	PL
1618	274118.59	8665731	79.495	LGAS
1619	274123.42	8665732.2	79.734	LP
1620	274121.58	8665740	79.722	LP
1621	274117.33	8665738.8	79.491	PIST
1622	274119.75	8665747.8	79.723	LP
1623	274115.52	8665746.9	79.482	PIST
1624	274109.22	8665745	79.489	PIST
1625	274111.68	8665763.2	79.541	PIST
1626	274114.7	8665762.6	79.713	PL
1627	274114.11	8665763.8	79.628	VERD
1628	274105.24	8665761.5	79.531	PIST
1629	274105.25	8665761.5	79.541	PIST
1630	274114.17	8665763.8	79.629	VERD
1631	274115.2	8665767.3	79.732	ESQ
1632	274102.34	8665774.3	79.534	PIST
1633	274112.33	8665768.1	79.55	PIST
1634	274114.29	8665770.2	79.542	PIST
1635	274107.23	8665771.6	79.583	BZ
1636	274109.07	8665778.1	79.592	PIST
1637	274112.66	8665776.5	79.582	PIST
1638	274107.57	8665780.9	79.568	PIST
1639	274112.51	8665778.9	79.771	ESQ
1640	274110.02	8665781.4	79.742	VERD
1641	274101.22	8665779.4	79.539	PIST
1642	274109.93	8665789.7	79.779	LP
1643	274105.77	8665788.8	79.586	PIST
1644	274108.16	8665789.8	79.793	PL

4046	274497.93	8665912.6	86.089	BZT
4047	274512.87	8665910.9	86.139	PIST
4048	274524.11	8665916	86.254	VERD
4049	274527.73	8665915.3	86.307	PL
4050	274537.95	8665914.4	86.421	VERD
4051	274524.95	8665917.6	86.421	ESQ
4052	274557.09	8665930.4	86.638	ESQ
4053	274555.96	8665930.6	86.647	ESQ
4054	274556.27	8665932.2	86.656	PL
4055	274489.67	8665845.3	85.61	LP
4056	274486.41	8665899.4	85.816	VERD
4057	274490.87	8665853.5	85.684	LP
4058	274489.6	8665854.3	85.665	VERD
4059	274487.32	8665899.2	85.785	PIST
4060	274486.11	8665904.3	85.838	PIST
4061	274491.96	8665861.1	85.773	LP
4062	274481.15	8665906.3	85.799	PIST
4063	274490.84	8665862.3	85.787	PL
4064	274481.04	8665905.3	85.765	VERD
4065	274493.09	8665869.1	85.886	LP
4066	274481.13	8665903.8	85.942	ESQ
4067	274491.76	8665872.2	85.772	VERD
4068	274489.66	8665873	85.657	PIST
4069	274488.88	8665873	85.65	LGAS
4070	274469.78	8665905.6	85.569	PL
4071	274494.22	8665877	85.874	LP
4072	274469.79	8665906.5	85.568	PIST
4073	274495.31	8665885	85.962	LP
4074	274469.83	8665912.7	85.574	PIST
4075	274496.45	8665892.9	86.025	LP
4076	274495.02	8665893.2	86.012	PT
4077	274495.77	8665897.4	86.074	PL
4078	274493.43	8665898.6	85.917	PIST
4079	274448.25	8665913.2	85.241	PIST
4080	274494.85	8665903.3	85.976	PIST
4081	274448.02	8665907.1	85.268	PIST
4082	274511.38	8665904.5	86.313	BZ
4083	274510.92	8665903.7	86.264	VERD
4084	274448.02	8665906.2	85.308	VERD
4085	274448.02	8665906.2	85.307	PL
4086	274496.02	8665899.9	86.097	VERD
4087	274428.81	8665907.6	84.987	PIST

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1645	274105.12	8665788.6	79.612	LGAS
1646	274108.17	8665789.2	79.773	VERD
1647	274108.18	8665797.4	79.787	LP
1648	274106.38	8665805.2	79.841	LP
1649	274104.53	8665804.8	79.841	VERD
1650	274102.15	8665804.1	79.602	PIST
1651	274101.57	8665803.9	79.635	LGAS
1652	274095.79	8665802.6	79.629	PIST
1653	274104.5	8665813	79.841	LP
1654	274101.38	8665819.4	79.904	PL
1655	274100.95	8665828.4	79.915	LP
1656	274102.5	8665821.7	79.906	LP
1657	274099.46	8665834.5	79.931	LP
1658	274097.47	8665842.3	79.941	LP
1659	274090.12	8665844.6	79.804	BZ
1660	274091.86	8665848.2	79.807	PIST
1661	274085.31	8665848.1	79.845	PIST
1662	274095.84	8665849.9	80.062	ESQ
1663	274094.83	8665855.8	79.876	PC
1664	274111.14	8665778.2	79.771	PC
1665	274125.45	8665719.9	79.739	PC
1666	274094.84	8665855.8	79.852	PC
1667	274129.49	8665719.8	79.644	VERD
1668	274129.76	8665718.2	79.521	PIST
1669	274131.24	8665712.4	79.517	PIST
1670	274131.69	8665711	79.413	VERD
1671	274141.42	8665722.6	79.696	VERD
1672	274139.69	8665712.9	79.737	VERD
1673	274139.66	8665714.3	79.614	VERD
1674	274140.21	8665720.9	79.589	VERD
1675	274139.07	8665711.3	79.78	LP
1676	274145.71	8665724.9	79.823	LP
1677	274148.42	8665713.4	79.96	LP
1678	274154.53	8665726.2	79.981	LP
1679	274140.64	8665713.1	79.903	PL
1680	274154.94	8665717.3	79.712	PIST
1681	274158.12	8665719.8	79.755	BZ
1682	274158.33	8665714.7	79.856	LP
1683	274158.55	8665716.2	79.941	VERD
1684	274163.45	8665726.8	80.056	LP
1685	274168.27	8665715.1	80.155	LP
1686	274159.39	8665725.2	80.026	VERD

4088	274429.48	8665913.7	84.941	PIST
4089	274493.78	8665906.5	86.004	LGAS
4090	274424.45	8665907.7	84.895	PIST
4091	274410.87	8665908.1	84.688	PIST
4092	274411.06	8665914.1	84.67	PIST
4093	274390.28	8665908.6	84.386	PIST
4094	274389.96	8665914.3	84.3	PIST
4095	274389.27	8665907.4	84.519	PL
4096	274509.04	8665921.2	86.061	LP
4097	274369.65	8665909.1	84.047	PIST
4098	274369.63	8665906.8	84.213	ESQ
4099	274370.94	8665905	84.256	ESQ
4100	274378.01	8665902.9	84.214	PIST
4101	274372.76	8665906	84.265	BZ
4102	274376.52	8665907.2	84.157	PIST
4103	274386.17	8665906.8	84.476	PC
4104	274474.3	8665854.9	85.195	BZ
4105	274475.77	8665861.1	85.234	PIST
4106	274471.16	8665849.9	85.1	PIST
4107	274473.84	8665867.6	85.215	PIST
4108	274470.4	8665848.8	85.195	PL
4109	274461.48	8665869.5	84.842	PL
4110	274478.39	8665846.8	85.409	VERD
4111	274447.67	8665871.5	84.467	VERD
4112	274462.1	8665850.2	84.995	LP
4113	274454.45	8665872	84.781	LP
4114	274462.29	8665851.7	84.853	VERD
4115	274444.01	8665873.6	84.57	LP
4116	274463.45	8665857.6	84.874	PIST
4117	274446.29	8665861.1	84.474	PIST
4118	274431.43	8665872.8	84.418	PL
4119	274444.91	8665861.9	84.554	VERD
4120	274445.36	8665853.7	84.617	ESQ
4121	274431.46	8665873.3	84.428	LP
4122	274446.14	8665853.8	84.614	PL
4123	274421	8665871.7	84.286	LP
4124	274445.62	8665855.2	84.485	VERD
4125	274444.12	8665855.2	84.494	VERD
4126	274424.38	8665857.7	84.045	BZ
4127	274433.62	8665863.3	84.463	VERD
4128	274408.58	8665868.4	84.122	LP
4129	274397.81	8665863.5	83.976	PL

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1687	274167.32	8665716.4	80.114	VERD
1688	274169.88	8665718.1	79.852	PIST
1689	274170.15	8665718	79.867	PIST
1690	274170.29	8665718.1	79.862	LGAS
1691	274146.39	8665721.1	79.644	LGAS
1692	274139.24	8665714.5	79.601	LGAS
1693	274132.48	8665712.8	79.521	LGAS
1694	274115.86	8665778.2	79.647	VERD
1695	274116.19	8665777.1	79.554	PIST
1696	274117.44	8665771.1	79.559	PIST
1697	274117.74	8665769.5	79.74	VERD
1698	274119.23	8665769.9	79.748	PT
1699	274135.29	8665772.2	79.898	LP
1700	274134.76	8665773.4	79.883	VERD
1701	274124.36	8665780.5	79.834	PL
1702	274134.53	8665774.8	79.693	PIST
1703	274132	8665783.4	79.901	LP
1704	274144.9	8665773.7	79.998	LP
1705	274132.07	8665782	79.839	VERD
1706	274132.45	8665780.7	79.709	PIST
1707	274155.02	8665777	79.861	PIST
1708	274140.08	8665785	79.979	LP
1709	274154.65	8665775.6	80.077	VERD
1710	274148.19	8665785.9	80.027	LP
1711	274155.02	8665774.2	80.099	LP
1712	274155	8665775.9	80.001	PT
1713	274148.34	8665784.7	79.763	VERD
1714	274151.62	8665779.5	79.884	BZ
1715	274152.29	8665777.8	79.882	LGAS
1716	274151.27	8665782.3	79.92	LGAS
1717	274165.2	8665773.4	80.204	LP
1718	274165.89	8665774.6	80.206	VERD
1719	274165.74	8665776.1	80.023	PIST
1720	274167.03	8665781.8	79.982	PIST
1721	274165.29	8665777.2	79.969	LGAS
1722	274166.26	8665781.3	80.057	LGAS
1723	274143.06	8665777	79.773	LGAS
1724	274140.46	8665781.4	79.787	LGAS
1725	274133.12	8665780.3	79.716	LGAS
1726	274118.47	8665772.1	79.565	LGAS
1727	274097.95	8665851.9	80.074	ESQ
1728	274098.74	8665853.3	80.019	VERD

4130	274389.34	8665862.6	83.718	ESQ
4131	274401.07	8665869	84.091	LP
4132	274395.3	8665845.5	83.911	PC
4133	274390.38	8665848.3	83.963	VERD
4134	274389.44	8665846.3	83.914	VERD
4135	274393.31	8665837.6	83.945	VERD
4136	274391.95	8665836.8	83.977	LP
4137	274392.3	8665837	83.975	PL
4138	274387.85	8665838.1	83.945	LP
4139	274383.26	8665850.6	83.711	ESQ
4140	274385.79	8665851.9	83.861	VERD
4141	274382.71	8665853.4	83.746	VERD
4142	274380.73	8665858.6	83.713	ESQ
4143	274378.23	8665853.9	83.568	ESQ
4144	274379.84	8665863.4	83.793	ESQ
4145	274378.87	8665854.2	83.613	PL
4146	274378.28	8665867.5	83.843	LP
4147	274382.31	8665862.6	83.668	VERD
4148	274377.17	8665872.2	83.853	ESQ
4149	274388.68	8665859.6	83.818	VERD
4150	274376.95	8665873	83.721	VERD
4151	274378.58	8665874.2	83.716	VERD
4152	274380.09	8665874.1	83.657	VERD
4153	274380.41	8665876	83.906	ESQ
4154	274380.67	8665861	83.774	BZ
4155	274379.02	8665876.3	83.783	VERD
4156	274366.54	8665882.7	83.963	LP
4157	274367.76	8665882.1	83.814	VERD
4158	274369.98	8665899	84.171	PL
4159	274370.25	8665894	83.969	VERD
4160	274371.47	8665900.1	84.057	VERD
4161	274384.45	8665904	84.334	VERD
4162	274386.57	8665901.3	84.479	ESQ
4163	274385.2	8665900.1	84.446	ESQ
4164	274428.68	8665900.1	85.142	ESQ
4165	274428.64	8665905	85.244	ESQ
4166	274427.16	8665901.7	84.948	VERD
4167	274383.52	8665891.8	84.257	LP
4168	274382.08	8665892.1	84.111	VERD
4169	274393.23	8665902.5	84.487	VERD
4170	274364.09	8665871.1	83.789	ESQ
4171	274365.66	8665870.7	83.71	ESQ

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1729	274098.99	8665854.7	79.894	PIST
1730	274096.81	8665862	79.913	BZ
1731	274101.76	8665853.2	80.017	PT
1732	274100.17	8665866	79.978	PIST
1733	274106.28	8665861.6	80.046	PIST
1734	274102.55	8665863.6	80.002	PIST
1735	274106.32	8665861.7	80.037	PIST
1736	274106.86	8665863.1	80.165	VERD
1737	274114.55	8665860.4	80.28	PL
1738	274102.05	8665866.6	80.126	VERD
1739	274103.36	8665867	80.184	ESQ
1740	274131.61	8665856.5	80.499	LP
1741	274101.87	8665873.5	80.183	LP
1742	274130.93	8665854.2	80.393	VERD
1743	274130.41	8665852.8	80.29	PIST
1744	274100.57	8665873.1	79.981	VERD
1745	274097.97	8665872.7	79.988	PIST
1746	274150.11	8665847.5	80.661	PIST
1747	274100.08	8665881.3	80.195	LP
1748	274098.81	8665881.2	80.169	PL
1749	274107.3	8665850	80.23	LP
1750	274107.78	8665851.4	80.32	VERD
1751	274108.58	8665852.8	80.134	PIST
1752	274108.86	8665853.5	79.982	LGAS
1753	274103.7	8665854.7	79.959	LGAS
1754	274090.32	8665853.7	79.81	LGAS
1755	274091.23	8665855.8	79.799	LGAS
1756	274098.24	8665866.8	79.975	LGAS
1757	274084.13	8665852.7	79.718	PIST
1758	274082.03	8665853.9	79.679	PIST
1759	274081.26	8665852.1	79.668	PIST
1760	274080.7	8665857.1	79.651	LGAS
1761	274085.21	8665856.1	79.722	LGAS
1762	274087.7	8665857.8	79.752	LGAS
1763	274088.22	8665859.7	79.762	LGAS
1764	274080.05	8665861.9	79.653	LGAS
1765	274098.3	8665889.1	80.226	LP
1766	274070.79	8665885	79.632	PIST
1767	274066.87	8665885.8	79.655	PIST
1768	274071.98	8665880.4	79.649	PIST
1769	274077.38	8665880.2	79.729	PIST
1770	274082.05	8665883.5	79.9	PIST

4172	274366.11	8665867.6	83.731	ESQ
4173	274365.09	8665867.8	83.724	ESQ
4174	274366.64	8665868.7	83.65	VERD
4175	274364.55	8665871.3	83.804	PL
4176	274390.06	8665914.7	84.307	PIST
4177	274409.61	8665910	84.648	BZ
4178	274386.34	8665928.3	84.576	ESQ
4179	274412.5	8665914.1	84.639	PIST
4180	274377.47	8665925.8	84.288	R
4181	274375.93	8665936.3	84.474	R
4182	274409.46	8665909	84.681	LGAS
4183	274383	8665940.4	84.677	LP
4184	274379.65	8665952.9	84.761	ESQ
4185	274374.21	8665950.7	84.608	LP
4186	274369.46	8665915.2	83.969	PIST
4187	274373.5	8665922.8	84.367	ESQ
4188	274355.73	8665915.5	83.907	BZT
4189	274355.73	8665914.2	83.798	PIST
4190	274357.17	8665908.6	83.809	PIST
4191	274356.77	8665909.4	83.821	LGAS
4192	274356.66	8665907.2	83.956	PL
4193	274360.75	8665922.7	84.315	ESQ
4194	274354.98	8665907.4	83.901	PL
4195	274357.38	8665917.5	83.988	ESQ
4196	274352.76	8665916.5	83.873	ESQ
4197	274349.08	8665911.6	83.717	BZ
4198	274350.85	8665924.2	84.056	PL
4199	274355.2	8665924.5	84.161	LP
4200	274347.96	8665913.8	83.734	VERD
4201	274347.13	8665915	83.817	LP
4202	274328.44	8665905.4	83.425	VERD
4203	274329.06	8665904.7	83.335	PIST
4204	274328.54	8665905.4	83.343	BM-10
4205	274328.63	8665907.3	83.488	ESQ
4206	274337.54	8665912.4	83.67	LP
4207	274338.3	8665911.1	83.688	VERD
4208	274338.46	8665910	83.563	PIST
4209	274341.11	8665904.7	83.562	PIST
4210	274341.43	8665903.6	83.684	VERD
4211	274344.67	8665903.5	83.728	LP
4212	274339.38	8665901	83.611	LP
4213	274337.66	8665901.7	83.598	VERD

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1771	274083.47	8665889.8	79.999	PIST
1772	274079.33	8665882.5	79.992	PL
1773	274071.68	8665888.1	79.824	PMT
1774	274071.06	8665890.3	79.798	PMT
1775	274093.83	8665891	80.01	PIST
1776	274096.19	8665891.8	80.081	VERD
1777	274073.51	8665907.3	79.856	PL
1778	274093.13	8665895.7	80.109	PT
1779	274062.41	8665921.7	79.81	PIST
1780	274096.46	8665896.9	80.242	LP
1781	274074.94	8665926.4	80.041	PIST
1782	274094.69	8665904.7	80.267	LP
1783	274085.46	8665927.6	80.164	PIST
1784	274087.85	8665927.8	80.298	VERD
1785	274089.1	8665928	80.342	LP
1786	274092.84	8665912.4	80.302	LP
1787	274091.52	8665912	80.068	VERD
1788	274091.11	8665920.2	80.33	LP
1789	274085.09	8665913.2	80.045	BZ
1790	274089.7	8665919.9	80.326	PL
1791	274089.08	8665911.4	80.105	PIST
1792	274087.43	8665935.8	80.352	LP
1793	274083.51	8665935.5	80.092	PIST
1794	274085.66	8665943.6	80.383	LP
1795	274082.47	8665942.9	80.321	PT
1796	274082.09	8665959.1	80.398	LP
1797	274081.03	8665958.4	80.321	VERD
1798	274068.34	8665955.2	80.143	PIST
1799	274078.26	8665957.9	80.237	PIST
1800	274080.94	8665959.2	80.352	VERD
1801	274054.7	8665955.3	79.888	PIST
1802	274060.2	8665963.8	80.051	PL
1803	274073.73	8665962.3	80.194	BZ
1804	274076.25	8665963.9	80.222	LGAS
1805	274062.12	8665981.7	80.195	PIST
1806	274072.31	8665984.5	80.259	PIST
1807	274071.86	8665984.8	80.272	LGAS
1808	274069.63	8665995.8	80.321	PIST
1809	274057.94	8665999.9	80.225	PIST
1810	274068.33	8666001.1	80.389	PIST
1811	274057.29	8666002.7	80.225	PIST
1812	274056.14	8666003.1	80.292	PIST

4214	274337.09	8665902.5	83.498	PIST
4215	274336.74	8665903.2	83.457	LGAS
4216	274300.76	8665875.3	82.729	BZ
4217	274328.46	8665897.7	83.282	LGAS
4218	274322.55	8665893	83.177	LGAS
4219	274317.48	8665887	83.083	LGAS
4220	274316.74	8665887.6	83.062	BZ
4221	274323.49	8665888.5	83.268	ESQ
4222	274324.76	8665889.7	83.285	ESQ
4223	274323.95	8665891	83.331	PL
4224	274322.92	8665892.1	83.2	PIST
4225	274313.46	8665895.9	83.062	PIST
4226	274332.13	8665896.4	83.478	LP
4227	274330.94	8665897.2	83.474	VERD
4228	274318.78	8665895.1	83.128	PIST
4229	274317.93	8665899.6	83.169	PIST
4230	274325.9	8665903	83.276	PIST
4231	274322.56	8665903	83.219	PIST
4232	274325.09	8665908.6	83.325	VERD
4233	274317.58	8665915.9	83.309	VERD
4234	274312.05	8665923.5	83.409	LP
4235	274305.48	8665919.4	83.244	VERD
4236	274294.2	8665915.1	83.122	VERD
4237	274293.43	8665915.9	83.282	PL
4238	274304.09	8665920.5	83.321	LP
4239	274285.15	8665911.1	83.077	VERD
4240	274282.67	8665912.1	83.218	LP
4241	274302.06	8665915.2	83.155	VERD
4242	274299.18	8665914.9	83.201	VERD
4243	274298.07	8665911.5	83.09	VERD
4244	274141.29	8665943.5	81.134	PIST
4245	274142.41	8665942.1	81.146	LGAS
4246	274145.61	8665924.8	81.18	PIST
4247	274146.5	8665924.9	81.117	LGAS
4248	274149.23	8665909.2	81.022	PIST
4249	274153.23	8665892.5	80.937	PIST
4250	274150.16	8665909.3	81.036	LGAS
4251	274154.05	8665892.7	80.957	LGAS
4252	274162.47	8665900.7	81.098	VERD
4253	274162.37	8665902.3	81.203	ESQ
4254	274181.91	8665898.3	81.447	PL
4255	274173.44	8665903.4	81.273	VERD

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1813	274069.57	8666005.7	80.507	PIST
1814	274052.56	8666000	80.341	PC
1815	274052.56	8666000	80.342	PC
1816	274053.71	8665994.5	80.151	GRIF
1817	274053.44	8665992.9	80.213	PL
1818	274049.22	8665978.6	79.937	PIST
1819	274044.16	8665981.4	79.908	PIST
1820	274043.4	8665988.4	79.946	PIST
1821	274043.74	8665995.2	79.961	PIST
1822	274044.42	8666000.1	80.044	PIST
1823	274045.9	8665999.7	80.265	SEMF
1824	274050.36	8666000.9	80.251	CAM VIGLA
1825	274055.16	8666001.9	80.319	SEMF
1826	274058.79	8666009.7	80.243	BZ
1827	274065.33	8666000.4	80.301	BZ
1828	274068.92	8666003	80.554	SEMAF
1829	274073.48	8666006.8	80.742	SEMAF
1830	274072.14	8666005.8	80.629	PL
1831	274071.73	8665997.9	80.511	PL
1832	274069.96	8665996.8	80.491	PT
1833	274072.11	8665996	80.469	VERD
1834	274071.82	8666003.6	80.623	ESQ
1835	274076.68	8665982.5	80.444	LP
1836	274078.44	8665974.8	80.383	LP
1837	274082.97	8666006.3	80.72	LP
1838	274082.48	8666008.1	80.491	VERD
1839	274074.7	8666008.3	80.541	PIST
1840	274091.73	8666008.3	80.872	LP
1841	274073.55	8666024.5	80.472	PIST
1842	274069.2	8666025.4	80.463	PIST
1843	274065.56	8666027.6	80.368	PIST
1844	274065.29	8666028.3	80.378	PIST
1845	274065.72	8666028.9	80.411	PIST
1846	274065.96	8666028.2	80.57	SEMF
1847	274068.33	8666028.6	80.652	SEMF
1848	274070.85	8666027.2	80.645	BZT
1849	274073.96	8666024	80.455	BZT
1850	274100.49	8666010.4	81.038	LP
1851	274083.49	8666024.1	80.587	PIST
1852	274083.99	8666033.1	80.728	PIST
1853	274121.2	8666041.9	81.411	PIST
1854	274109.3	8666012.3	81.151	LP

4256	274181.43	8665901.4	81.392	VERD
4257	274172.32	8665904.5	81.217	VERD
4258	274175.87	8665907.5	81.141	VERD
4259	274184.41	8665882.4	81.251	VERD
4260	274176.38	8665906	81.282	VERD
4261	274185.75	8665882.3	81.316	VERD
4262	274179.29	8665904	81.341	VERD
4263	274182.1	8665904.7	81.533	VERD
4264	274182.52	8665903.1	81.415	VERD
4265	274181.45	8665901.4	81.4	VERD
4266	274177.08	8665902.4	81.304	BZ
4267	274191.5	8665906.2	81.695	VERD
4268	274191.01	8665907.7	81.683	VERD
4269	274196.24	8665907.9	81.834	ESQ
4270	274195.08	8665908.6	81.841	PC
4271	274211.52	8665914.4	82.093	PC
4272	274180.1	8665897.2	81.301	PC
4273	274170.17	8665857	80.887	ESQ
4274	274172.54	8665858.6	80.918	ESQ
4275	274188.34	8665865.7	81.216	ESQ
4276	274183.28	8665861.2	81.114	ESQ
4277	274187.87	8665867.7	81.213	ESQ
4278	274188.7	8665870.2	81.364	PL
4279	274188.12	8665873.1	81.312	VERD
4280	274186.63	8665872.8	81.212	VERD
4281	274199.95	8665870.5	81.349	ESQ
4282	274200.97	8665871.5	81.3	VERD
4283	274206.96	8665866	81.551	VERD
4284	274210.73	8665862.9	81.659	PL
4285	274212.32	8665860.6	81.732	LP
4286	274206.08	8665865.8	81.529	BZ
4287	274212.93	8665861.9	81.729	VERD
4288	274205.33	8665865.4	81.514	LP
4289	274215.72	8665861.5	81.851	VERD
4290	274215.19	8665860.1	81.811	LP
4291	274205.29	8665872.2	80.563	ESQ
4292	274211.45	8665865.7	80.605	ESQ
4293	274196.64	8665883.2	80.575	ESQ
4294	274191.87	8665890.8	80.864	ESQ
4295	274188.2	8665895.5	81.228	R
4296	274191.03	8665907.8	81.63	VERD
4297	274192.2	8665909.9	81.923	VERD

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1855	274109.3	8666012.3	81.161	LP
1856	274108.72	8666014.2	81.168	PL
1857	274123.09	8666032.6	81.218	PIST
1858	274118.73	8666024.1	81.205	BZ
1859	274120.48	8666017.1	81.408	PC
1861	274120.52	8666015	81.407	ESQ
1862	274117.84	8666016.6	81.208	VERD
1863	274117.4	8666018.2	81.165	PIST
1864	274119.99	8666018.4	81.188	PIST
1865	274124.16	8666015.5	81.243	PIST
1866	274123.75	8666018.2	81.267	BZT
1867	274131.1	8666013.3	81.279	PIST
1868	274131.82	8666017.2	81.35	PIST
1869	274132.38	8666014	81.516	ESQ
1870	274127.23	8666014.5	81.301	ESQ
1871	274124.78	8666004.6	81.349	PL
1872	274126.88	8666004.7	81.208	PIST
1873	274132.67	8666006.3	81.261	PIST
1874	274125.43	8665994	81.33	LP
1875	274136.51	8665996.2	81.377	LP
1876	274135.12	8665995.7	81.256	VERD
1877	274126.81	8665994	81.326	VERD
1878	274129.25	8665994.6	81.209	PIST
1879	274127.25	8665986.2	81.343	LP
1880	274139.72	8665982.8	81.395	ESQ
1881	274128.54	8665986.5	81.278	PT
1882	274138.48	8665981.7	81.226	PIST
1883	274133.35	8665984.4	81.208	BZ
1884	274131.83	8665983.5	81.208	PIST
1885	274132.33	8665983.8	81.207	LGAS
1886	274137.14	8665983.2	81.228	LGAS
1887	274129.62	8665987.9	81.363	BZT
1888	274142.07	8665976.6	81.386	ESQ
1889	274129.05	8665978.4	81.337	LP
1890	274130.85	8665970.6	81.346	LP
1891	274144.53	8665961.9	81.372	LP
1892	274132.23	8665970.8	81.257	VERD
1893	274134.65	8665971.4	81.188	PIST
1894	274142.96	8665962.3	81.241	PIST
1895	274142.2	8665962	81.239	LGAS
1896	274137.82	8665961.4	81.199	LGAS
1897	274132.71	8665962.8	81.316	LP

4298	274192.01	8665912.2	81.95	VERD
4299	274193.94	8665909.7	81.821	BZ
4300	274191.8	8665916.3	81.929	ESQ
4301	274196.23	8665912.8	81.937	ESQ
4302	274192.99	8665914.9	81.927	ESQ
4303	274188.34	8665922.3	81.956	LP
4304	274187.09	8665921.9	81.926	PL
4305	274187.06	8665921.9	81.925	VERD
4306	274201.76	8665912.7	81.984	ESQ
4307	274185.51	8665927.5	81.938	ESQ
4308	274184.22	8665927	81.934	LP
4309	274181.76	8665932.6	81.88	LP
4310	274207.22	8665914.7	82.032	LP
4311	274209.85	8665915.8	82.012	LP
4312	274207.52	8665913.2	82.061	LGAS
4313	274207.97	8665912	82.063	ESQ
4314	274182.17	8665904.5	81.529	LGAS
4315	274199.1	8665908.9	81.89	PL
4316	274216.44	8665918.2	82.118	ESQ
4317	274218.94	8665919.2	81.909	VERD
4318	274219.03	8665917.6	82.14	PL
4319	274177.25	8665943.6	81.944	PC
4320	274179.47	8665945.6	81.963	BZ
4321	274182.44	8665947.2	81.999	BZ
4322	274186.17	8665948.2	82.032	PL
4323	274183.02	8665933.2	81.93	LP
4324	274188.63	8665949	82.067	ESQ
4325	274179.55	8665942.9	81.917	ESQ
4326	274180.95	8665944.7	81.966	ESQ
4327	274195.24	8665959.8	82.13	VERD
4328	274183.41	8665957.5	82.064	VERD
4329	274180.17	8665959.4	81.956	VERD
4330	274179.47	8665965.3	82.096	VERD
4331	274225.25	8665973.4	82.609	PC
4332	274224.29	8665967.3	82.611	VERD
4333	274221.8	8665965	82.548	VERD
4334	274214.77	8665958.9	82.443	ESQ
4335	274217.62	8665959.7	82.442	ESQ
4336	274223.61	8665961.3	82.552	LP
4337	274210.66	8665957.8	82.372	PL
4338	274210	8665962.8	82.365	VERD
4339	274204.62	8665955.6	82.305	LP

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1898	274132.87	8665969	81.306	PL
1899	274141.29	8665949.4	81.176	BZ
1900	274134.49	8665955	81.318	LP
1901	274149.58	8665940.3	81.334	LP
1902	274136.31	8665947.3	81.319	LP
1903	274138.14	8665939.5	81.306	LP
1904	274139.4	8665939.9	81.302	VERD
1905	274148.08	8665940.3	81.204	PIST
1906	274139.98	8665931.7	81.285	LP
1907	274141.62	8665932.1	81.282	PL
1908	274141.82	8665923.9	81.255	LP
1909	274143.66	8665916.1	81.224	LP
1910	274145.49	8665908.3	81.169	LP
1911	274147.34	8665900.6	81.16	LP
1912	274148.74	8665900.7	81.109	VERD
1913	274149.13	8665892.8	81.1	LP
1914	274150.95	8665885	81.08	LP
1915	274149.98	8665895.8	81.07	PL
1916	274152.73	8665877.2	81.045	LP
1917	274154.54	8665869.4	81.001	LP
1918	274152.94	8665882	81.027	PT
1919	274159.95	8665846.3	80.853	ESQ
1920	274158.62	8665858.3	80.844	PL
1921	274158.63	8665858.3	80.849	PL
1922	274160.89	8665842.7	80.811	PC
1923	274158.59	8665894.4	81.031	PC
1924	274140.69	8665979.2	81.405	PC
1925	274136.41	8666017.2	81.366	VERD
1926	274147.01	8666019.2	81.711	PL
1927	274151.99	8666023.8	81.701	VERD
1928	274152.49	8666020.9	81.714	VERD
1929	274155.25	8666019.5	81.799	LP
1930	274171.59	8666023.3	82.044	PL
1931	274164.13	8666027.2	81.933	BZT
1932	274186.81	8666031.9	82.303	VERD
1933	274187.58	8666029.2	82.248	VERD
1934	274201.21	8666035.2	82.464	BZT
1935	274203.15	8666035.7	82.495	PIST
1936	274259.6	8666047.9	83.443	PC
1937	274208.49	8666033.8	82.691	PC
1938	274168.32	8666035.4	81.949	BZ
1939	274135.78	8666020	81.389	PIST

4340	274196.63	8665952.5	82.023	LP
4341	274195.51	8665959.9	82.22	VERD
4342	274175.42	8665954.5	82.027	LP
4343	274176.31	8665951.8	82.004	PL
4344	274228.77	8665963.2	82.596	PL
4345	274252.05	8665968.7	82.56	LP
4346	274253.76	8665969	82.568	LP
4347	274259.81	8665970.9	82.566	PL
4348	274235.21	8665976.2	82.563	R
4349	274261.18	8665971	82.588	LP
4350	274260.27	8665972.4	82.562	ESQ
4351	274251.93	8665980.2	82.557	PL
4352	274250.61	8665980	82.544	LGAS
4353	274272.56	8665975.4	83.122	ESQ
4354	274253.9	8665976.2	82.572	LGAS
4355	274274.69	8665974.4	83.242	ESQ
4356	274255.23	8665970.6	82.572	LGAS
4357	274264.52	8665970.9	82.791	BZ
4358	274243.68	8665986	82.56	BZ
4359	274242.5	8665990.3	82.56	LGAS
4360	274243.48	8665990.9	82.552	LP
4361	274217.78	8665992	82.392	VERD
4362	274232.23	8665987.7	82.6	R
4363	274212.03	8666001.3	82.588	ESQ
4364	274238.17	8665998.4	82.562	LP
4365	274237.78	8665998.3	82.555	PL
4366	274227.5	8665995.8	82.556	R
4367	274221.64	8666006	82.584	PL
4368	274221.59	8665977.5	82.425	PL
4369	274209.98	8665911.7	82.123	ESQ
4370	274212.56	8665908	82.111	PL
4371	274216.3	8665900.3	82.165	LP
4372	274222.19	8665892.1	82.202	LP
4373	274221.16	8665912.8	82.035	VERD
4374	274224.17	8665894.2	82.132	VERD
4375	274223.56	8665909.8	82.151	VERD
4376	274223.18	8665900.9	82.185	VERD
4377	274223.25	8665907.7	82.175	BZ
4378	274224.97	8665904.4	82.146	ESQ
4379	274228.06	8665909.9	82.166	VERD
4380	274223.07	8665904.9	82.064	VERD
4381	274217.1	8665902.8	82.069	VERD

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1940	274118.7	8666023.8	81.206	BZ
1941	274120.61	8666016.5	81.408	BZT
1942	274206.65	8666036	82.498	BZT
1943	274211.28	8666031.6	82.511	PIST
1944	274206.89	8666030.5	82.597	VERD
1945	274205.26	8666031.2	82.603	ESQ
1946	274203.93	8666032.9	82.446	VERD
1947	274190.58	8666029.3	82.361	PL
1948	274207.43	8666022.8	82.582	PL
1949	274210.38	8666015.7	82.439	VERD
1950	274211.99	8666001.4	82.568	ESQ
1951	274213.52	8666002.3	82.596	VERD
1952	274218.68	8666006.6	82.443	VERD
1953	274221.46	8666006.4	82.558	PL
1954	274223.95	8666008	82.548	VERD
1955	274230.92	8666006.6	82.393	VERD
1956	274232.4	8666006.7	82.557	ESQ
1957	274231.28	8666011.7	82.577	ESQ
1958	274230.99	8666013.2	82.553	ESQ
1959	274228.56	8666022.6	82.647	LP
1960	274227.15	8666023	82.504	VERD
1961	274224.44	8666034.4	82.619	VERD
1962	274220.02	8666033.8	82.589	PIST
1963	274219.49	8666034.9	82.643	BZ
1964	274220.77	8666037.8	82.667	PIST
1965	274224.61	8666040.8	82.781	PIST
1966	274224.83	8666039.5	82.946	ESQ
1967	274234.55	8666043.1	83.092	PL
1968	274234.55	8666043.1	83.063	PIST
1969	274254.13	8666072.5	83.395	PIST
1970	274256.08	8666061.7	83.273	PIST
1972	274200.78	8666049.8	82.383	PIST
1973	274199.23	8666060	82.631	PIST
1974	274265.75	8666058.2	83.422	BZ
1975	274237.81	8666042.5	83.178	LP
1976	274246.53	8666044.6	83.35	LP
1977	274256.82	8666048.5	83.27	PIST
1978	274261.04	8666048.8	83.351	PIST
1979	274270.98	8666046.6	83.348	PIST
1980	274264.18	8666046.2	83.322	PIST
1981	274271.9	8666050.2	83.434	PIST
1982	274275.41	8666052.9	83.509	PIST

4382	274216.76	8665908.7	82.045	VERD
4383	274225.31	8665915.3	81.608	ESQ
4384	274231.5	8665912.3	82.235	PC
4385	274234.55	8665918.6	81.161	ESQ
4386	274237.47	8665916.9	82.135	VERD
4387	274238.5	8665915.9	82.284	ESQ
4388	274239.64	8665916.8	82.299	ESQ
4389	274240.37	8665913.9	82.317	LP
4390	274241.4	8665914.8	82.368	LP
4391	274245.07	8665921.3	82.353	LP
4392	274244.15	8665922.5	82.445	VERD
4393	274254.75	8665928.4	82.437	LP
4394	274253.99	8665929.4	82.438	LP
4395	274261.4	8665932.2	82.502	LP
4396	274263.4	8665934.5	82.514	BZ
4397	274262.56	8665934.5	82.625	VERD
4398	274286.88	8665945.7	83.313	PC
4399	274285.58	8665943.1	83.195	VERD
4400	274285.6	8665944.7	83.233	VERD
4401	274271.53	8665937.3	82.588	VERD
4402	274271.22	8665938.5	82.646	VERD
4403	274274.23	8665938.7	82.742	PL
4404	274286.8	8665944	83.268	ESQ
4405	274286.03	8665941.8	83.21	VERD
4406	274287.42	8665942.3	83.244	VERD
4407	274281.06	8665944.1	82.981	ESQ
4408	274289.28	8665947.6	83.389	ESQ
4409	274280.86	8665953.8	82.901	ESQ
4410	274291.67	8665949.6	83.429	ESQ
4411	274288.88	8665949.9	83.373	VERD
4412	274293.02	8665960.4	83.451	VERD
4413	274301.79	8665952.7	83.505	PL
4414	274297.53	8665951.1	83.2	LP
4415	274309.98	8665954.8	83.538	BZ
4416	274309.25	8665954.5	83.541	ESQ
4417	274310.6	8665953.7	83.553	ESQ
4418	274311.71	8665954.7	83.551	LP
4419	274313.71	8665948.6	83.596	PL
4420	274312.94	8665947.6	83.608	VERD
4421	274314.29	8665947.9	83.613	VERD
4422	274306	8665966.7	83.509	LP
4423	274301.08	8665964.3	83.492	VERD

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1983	274259.67	8666042.4	83.206	VERD
1984	274258.42	8666042	83.352	PL
1985	274274.79	8666051.4	83.657	ESQ
1986	274273	8666049.7	83.62	ESQ
1987	274272.25	8666047.6	83.547	ESQ
1988	274272.23	8666052.8	83.456	BZ
1989	274263.35	8666026.6	83.106	PIST
1990	274266.86	8666011.7	83.113	PIST
1991	274274.58	8666031.2	83.208	PIST
1992	274266.9	8666011.7	83.153	PIST
1993	274277.04	8666020.8	83.157	PIST
1994	274264.92	8666014.9	83.213	PL
1995	274278.3	8666022	83.235	LP
1996	274264.4	8666015.9	83.25	LP
1997	274264.37	8666015.9	83.22	LP
1998	274280.91	8666011.1	83.192	ESQ
1999	274280.84	8666009.7	83.218	ESQ
2000	274262.06	8666025.6	83.265	LP
2001	274277.89	8666005.3	83.292	ESQ
2002	274278.72	8665999.8	83.277	ESQ
2003	274265.04	8666012.7	83.221	LP
2004	274279.78	8665998.5	83.301	PL
2005	274269.98	8666004	83.266	LP
2006	274276.21	8665996.5	83.326	LP
2007	274290.81	8666012.5	83.453	LOZA
2008	274294.66	8666033	83.826	BZ
2009	274296.63	8666035.6	83.839	PL
2010	274296.94	8666013.7	83.632	PL
2011	274296.47	8666015.1	83.653	LOZA
2012	274325.64	8666022.9	84.251	LOZA
2013	274316.3	8666018.9	84.126	PL
2014	274317.9	8666019	84.032	ESQ
2015	274325.66	8666022.9	84.239	LOZA
2016	274322.01	8666048.4	84.168	BZT
2017	274317.3	8666059.3	84.351	LOZA
2018	274316.83	8666065.4	84.197	BZT
2019	274314.33	8666070	84.154	BZ
2020	274315.75	8666060.5	84.341	ESQ
2021	274313.74	8666073.6	84.17	PIST
2022	274309.48	8666085.1	84.236	PIST
2023	274315.67	8666060.5	84.327	ESQ
2024	274343.89	8666080	84.613	PIST

4424	274300.93	8665974.9	83.477	PL
4425	274301.24	8665975	83.482	LP
4426	274297.61	8665970.3	83.286	VERD
4427	274335.55	8666022.5	84.584	PL
4428	274334.58	8666021.9	84.508	VERD
4429	274334.55	8666021.9	84.139	PIST
4430	274328.83	8666019.8	84.076	PIST
4431	274341.62	8665996.2	84.426	VERD
4432	274319.62	8666017.6	83.999	VERD
4433	274340.41	8665995.9	84.069	PIST
4434	274321.09	8666006.3	84.144	PL
4435	274342.17	8666002.6	84.616	ESQ
4436	274324.79	8665988.2	84.074	LP
4437	274325.69	8665991.4	83.98	VERD
4438	274342.99	8665990.6	84.307	PL
4439	274333.36	8665993.1	84.011	VERD
4440	274334.74	8665991.3	84.127	BZT
4441	274334.5	8665983	84.179	ESQ
4442	274327.51	8665990.5	84.16	BZ
4443	274326.53	8665981	84.199	ESQ
4444	274336.53	8665981.6	84.004	VERD
4445	274339.73	8665979.3	84.22	ESQ
4446	274339.03	8665968.1	84.275	BZ
4447	274341.84	8665962.3	84.307	GRIF
4448	274338.42	8665969.5	84.271	PL
4449	274340.45	8665961.8	84.29	LP
4450	274344.23	8665962.7	84.298	LP
4451	274341.65	8665957.6	84.324	ESQ
4452	274344.4	8665947.7	84.323	PL
4453	274347.99	8665948.4	84.323	VERD
4454	274346.39	8665940.2	84.255	ESQ
4455	274347.8	8665935.3	84.248	ESQ
4456	274351.97	8665935.2	84.241	VERD
4457	274353	8665989.3	84.388	PC
4458	274347.36	8665997.5	84.508	ESQ
4459	274349.48	8665989.6	84.316	R
4460	274351.98	8665983	84.404	R
4461	274385.1	8666006.9	84.664	ESQ
4462	274364.11	8665985.7	84.732	ESQ
4463	274376.78	8666002.1	84.789	PL
4464	274362.66	8665992.7	84.75	R
4465	274379.23	8665986.9	84.797	BZ

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2025	274341.05	8666092.3	84.774	PIST
2026	274381.07	8666101.5	85.474	PIST
2027	274383.3	8666089	85.163	PIST
2028	274314.33	8666062.1	84.166	PIST
2029	274415.13	8666096.4	85.679	PIST
2030	274345.43	8666084.6	84.845	PC
2031	274282.2	8666054.2	83.823	PL
2032	274315.05	8666062.3	84.162	PIST
2033	274318.28	8666061.4	84.199	PIST
2034	274325.9	8666059.9	84.197	PIST
2035	274320.07	8666058.4	84.162	PIST
2036	274318.98	8666058.2	84.138	VERD
2037	274326.52	8666063.8	84.33	PIST
2038	274330.41	8666064.7	84.365	PIST
2039	274327.38	8666059.8	84.397	VERD
2040	274330.85	8666062.9	84.37	PIST
2041	274328.29	8666062.4	84.451	VERD
2042	274328.67	8666061.9	84.438	PL
2043	274341.29	8666065.2	84.518	PIST
2044	274341.94	8666068.6	84.597	PIST
2045	274343.98	8666069.1	84.639	PIST
2046	274331.19	8666061.2	84.399	PIST
2047	274349.72	8666065.7	84.771	PIST
2048	274329.74	8666058.7	84.41	PIST
2049	274331.93	8666057.2	84.426	PIST
2050	274344.96	8666064.8	84.66	VERD
2051	274330.52	8666054.8	84.453	PIST
2052	274346.01	8666061.2	84.565	VERD
2053	274344	8666062.2	84.635	PIST
2054	274332.84	8666053.3	84.47	PIST
2055	274331.45	8666050.8	84.474	PIST
2056	274342.76	8666059.7	84.528	PIST
2057	274333.64	8666049.5	84.507	PIST
2058	274344.99	8666058.3	84.514	PIST
2059	274328.77	8666052.4	84.592	VERD
2060	274327.99	8666055.1	84.602	PL
2061	274343.45	8666055.8	84.499	PIST
2062	274331.21	8666046.1	84.637	BZ
2063	274345.94	8666054.4	84.511	PIST
2064	274333.73	8666038.5	84.605	ESQ
2065	274342.62	8666040.7	84.626	ESQ
2066	274342.81	8666043.7	84.633	ESQ

4466	274371.3	8665984.4	84.731	LOZA
4467	274389.73	8665989.5	84.694	LOZA
4468	274382.72	8665987.6	84.726	R
4469	274381.24	8665995	84.743	R
4470	274397.45	8665976.8	84.98	PL
4471	274396.19	8665997	84.579	R
4472	274401.59	8665990.3	85.099	ESQ
4473	274396.94	8666009.7	84.634	LP
4474	274405.72	8665977.4	84.888	R
4475	274408.43	8665974.5	84.904	ESQ
4476	274408.27	8665972.5	84.9	PC
4477	274739.66	8666029.9	89.876	VERD
4478	274739.86	8666028.5	89.89	VERD
4479	274740.89	8666028.5	90.526	VERD
4480	274740.58	8666030	90.507	VERD
4481	274748.55	8666029.6	90.561	ESQ
4482	274751.42	8666030	90.594	ESQ
4483	274749.19	8666026.4	90.603	LP
4484	274751.88	8666027	90.619	LP
4485	274749	8666029.4	90.586	PL
4486	274761.23	8666032.4	90.622	VERD
4487	274760.84	8666033.9	90.44	VERD
4488	274770.74	8666035.7	90.626	VERD
4489	274770.24	8666037.1	90.441	VERD
4490	274773.7	8666036.7	90.503	VERD
4491	274772.99	8666038.1	90.434	VERD
4492	274774.62	8666034	90.467	VERD
4493	274771.94	8666032.8	90.61	VERD
4494	274770.8	8666035.5	90.616	PL
4495	274776.08	8666043.3	90.594	PC
4496	274772.06	8666042.6	90.384	ESQ
4497	274762.62	8666039.9	90.165	ESQ
4498	274768.55	8666037	90.54	BZ
4499	274752.41	8666037.1	89.986	R
4500	274763.8	8666034.7	90.423	R
4501	274754.01	8666032.2	90.374	R
4502	274741.73	8666034.3	89.844	R
4503	274741.09	8666030.1	90.1	R
4504	274774.6	8666038.7	90.604	VERD
4505	274775.67	8666041.8	90.575	VERD
4506	274772.65	8666053.2	90.44	VERD
4507	274769.22	8666052.7	90.457	VERD

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2067	274353.16	8666052	84.642	ESQ
2068	274350.39	8666064	85.061	ESQ
2069	274351.83	8666045.8	84.646	LP
2070	274341.75	8666044.9	84.612	PL
2071	274357.73	8666068	85.174	GRIF
2072	274326.05	8666020.5	84.211	PC
2073	274354.25	8666064.9	85.105	LP
2074	274358.5	8666065.9	85.163	LP
2075	274362.03	8666066.7	85.228	LP
2076	274366.21	8666067.8	85.273	LP
2077	274373.98	8666069.6	85.392	LP
2078	274373.31	8666071.4	85.262	VERD
2079	274372.63	8666075.8	85.111	PIST
2080	274375.28	8666072.8	85.428	PL
2081	274393.41	8666074.1	85.493	LP
2082	274393.14	8666076.1	85.418	VERD
2083	274392.09	8666080.1	85.38	PIST
2084	274409.47	8666080.5	85.685	PL
2085	274390.98	8666083.1	85.306	BZT
2086	274415.43	8666085.6	85.701	PIST
2087	274373.98	8666083.9	85.078	BZ
2088	274415.14	8666096.3	85.687	PIST
2089	274418.93	8666099.1	85.711	PIST
2090	274417.16	8666079.6	85.693	ESQ
2091	274414.8	8666108.3	85.819	PIST
2092	274412	8666108.4	85.84	PIST
2093	274436.91	8666084.3	86.112	ESQ
2094	274435.51	8666090.1	85.959	PIST
2095	274432.38	8666097.6	85.937	BZ
2096	274442.23	8666088.3	86.148	PL
2097	274427.88	8666099.6	85.907	PIST
2098	274422.56	8666113.5	86.096	PIST
2099	274423.2	8666114.8	86.11	PIST
2100	274478.04	8666098.2	86.589	PC
2101	274426.94	8666080.9	86.007	PC
2102	274422.64	8666075	86.011	PL
2103	274438.5	8666078.2	86.031	PL
2104	274438.16	8666078.9	86.156	ESQ
2105	274440.65	8666077.4	86.083	ESQ
2106	274423.74	8666052	85.501	ESQ
2107	274444.58	8666050.4	85.489	PL
2108	274440.61	8666049.1	85.456	R

4508	274772.11	8666056.1	90.41	VERD
4509	274768.87	8666055.6	90.449	VERD
4510	274771.35	8666064.6	90.395	VERD
4511	274771.05	8666072.9	90.471	VERD
4512	274772.86	8666064.8	90.396	VERD
4513	274767.78	8666073.1	90.429	VERD
4514	274781.22	8666065.5	90.462	VERD
4515	274767.78	8666076	90.466	VERD
4516	274771.03	8666075.8	90.469	VERD
4517	274788.04	8666065.5	90.593	PL
4518	274772.29	8666086.7	90.542	VERD
4519	274791.08	8666066.2	90.542	VERD
4520	274773.7	8666086.5	90.559	VERD
4521	274792.68	8666067.2	90.625	VERD
4522	274770.97	8666072.1	90.435	PL
4523	274792.87	8666068.3	90.65	VERD
4524	274772.56	8666052.9	90.401	PL
4525	274791.66	8666085.3	90.723	VERD
4526	274794.64	8666085.5	90.71	VERD
4527	274795.05	8666078.1	90.727	VERD
4528	274794.28	8666073.6	90.689	BZ
4529	274800.99	8666069.7	90.712	VERD
4530	274802.77	8666073.8	90.705	VERD
4531	274800.86	8666072.3	90.689	VERD
4532	274805.01	8666064	90.711	VERD
4533	274803.86	8666063	90.667	VERD
4534	274787.2	8666050.6	90.512	VERD
4535	274792.76	8666043	90.595	VERD
4536	274790.42	8666041.5	90.572	VERD
4537	274788.38	8666044.2	90.591	VERD
4538	274790.83	8666045.9	90.54	PL
4539	274800.93	8666049.7	90.612	ESQ
4540	274781.25	8666083.8	90.572	ESQ
4541	274779.76	8666093.3	90.69	ESQ
4542	274804.07	8666060.2	90.559	GRIF
4543	274782.2	8666075.7	90.493	PL
4544	274801.85	8666071.4	90.683	PL
4545	274792.77	8666083.6	90.74	PC
4546	274807.3	8666077.4	90.725	VERD
4547	274807.16	8666076	90.732	VERD
4548	274807.51	8666075.9	91.046	VERD
4549	274807.65	8666077.4	91.063	VERD

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2109	274427.26	8666046.1	85.46	R
2110	274450.44	8666025.6	85.485	PL
2111	274432.84	8666021.8	85.502	LP
2112	274452.51	8666025.9	85.491	LP
2113	274421.59	8666019.4	85.478	PL
2114	274449.23	8666025.5	85.494	ESQ
2115	274420.81	8666018.4	85.507	LP
2116	274458.18	8666001.8	85.805	LP
2117	274451.55	8666015.8	85.767	LP
2118	274434.29	8666086.9	86.04	VERD
2119	274434.48	8666089.1	85.941	PIST
2120	274427.42	8666105.7	85.903	PIST
2121	274422.53	8666113.6	86.022	PIST
2122	274423.86	8666114.9	86.066	PIST
2123	274419.84	8666102.6	85.762	PIST
2124	274417.25	8666107.4	85.812	PIST
2125	274412.45	8666108.5	85.845	PIST
2126	274472.16	8666095	86.64	PL
2127	274478.74	8666094.1	86.512	ESQ
2128	274470.92	8666098.5	86.476	PIST
2129	274475.46	8666098.2	86.552	PIST
2130	274471.52	8666099.2	86.486	BZT
2131	274459.91	8666106.6	86.343	PIST
2132	274460.6	8666107.3	86.358	PIST
2133	274459.93	8666108.3	86.338	PIST
2134	274456.6	8666112.7	86.3	PIST
2135	274455.48	8666116.6	86.35	PIST
2136	274455.4	8666120.9	86.416	PIST
2137	274455.04	8666121.8	86.475	PIST
2138	274454.04	8666121.8	86.413	PIST
2139	274467.96	8666125.1	86.578	PIST
2140	274465.57	8666123.8	86.566	PIST
2141	274463.81	8666116.1	86.42	PIST
2142	274471.24	8666112.8	86.481	PIST
2143	274484.42	8666095.8	86.628	PIST
2144	274485.42	8666099.9	86.637	PIST
2145	274496.36	8666118.6	86.902	PIST
2146	274489.19	8666102.6	86.681	PIST
2147	274497.65	8666112.4	86.871	BZ
2148	274496.34	8666104.8	86.81	BZT
2149	274497	8666104.5	86.793	PIST
2150	274497.5	8666100.4	86.987	VERD

4550	274814.78	8666072.8	90.909	ESQ
4551	274810.81	8666077.1	91.065	VERD
4552	274813.84	8666076.8	91.14	VERD
4553	274812.18	8666084.4	91.173	VERD
4554	274815.01	8666083.9	91.176	VERD
4555	274822.56	8666076	91.296	VERD
4556	274822.21	8666074.8	91.266	VERD
4557	274807.45	8666068.1	90.744	ESQ
4558	274833.87	8666073.8	91.48	VERD
4559	274834.23	8666075.2	91.436	VERD
4560	274835.15	8666078.3	91.406	VERD
4561	274837.85	8666077.3	91.395	VERD
4562	274836.41	8666074.2	91.465	VERD
4563	274836	8666072.9	91.52	VERD
4564	274831.47	8666070.6	90.302	ESQ
4565	274834.14	8666074.3	91.467	BZ
4566	274829.1	8666075.9	91.312	PL
4567	274838.03	8666071.8	91.549	VERD
4568	274836.8	8666071.3	91.5	VERD
4569	274839.07	8666069.1	91.507	VERD
4570	274837.88	8666068.8	91.534	VERD
4571	274853.51	8666065.2	91.771	PC
4572	274840.62	8666065.2	91.538	VERD
4573	274839.54	8666064.6	91.537	VERD
4574	274842.56	8666057.1	91.544	VERD
4575	274843.76	8666057.4	91.568	VERD
4576	274840.76	8666056.2	91.536	VERD
4577	274841.06	8666055.1	91.534	VERD
4578	274835.53	8666062.7	90.252	ESQ
4579	274838.88	8666055.5	90.478	VERD
4580	274839.28	8666054.2	90.478	VERD
4581	274849.8	8666043.2	91.663	VERD
4582	274848.44	8666042.7	91.634	VERD
4583	274849.49	8666040	91.803	VERD
4584	274841.88	8666046.4	90.261	ESQ
4585	274850.14	8666042	91.84	VERD
4586	274851.58	8666041.4	91.802	VERD
4587	274844.16	8666037.7	90.36	ESQ
4588	274848.65	8666037.9	91.778	VERD
4589	274844.25	8666036.8	91.033	VERD
4590	274844.54	8666034.5	91.091	VERD
4591	274847.36	8666035.1	91.737	VERD

2151	274497.87	8666098.8	86.975	VERD
2152	274500.99	8666101.6	86.965	PL
2153	274505.22	8666098.2	87.041	BZ
2154	274486.01	8666094.1	86.827	PL
2155	274487.41	8666083	86.581	PIST
2156	274481.71	8666081.6	86.572	PIST
2157	274487.86	8666054.6	86.592	PIST
2158	274493.07	8666058.6	86.637	PIST
2159	274493.96	8666059	86.642	PL
2160	274494.7	8666051.8	86.651	PIST
2161	274495.84	8666050.8	86.648	PIST
2162	274501.64	8666056.7	86.911	PL
2163	274497.9	8666052.7	86.881	VERD
2164	274507.59	8666071	86.884	PL
2165	274495.92	8666037	86.609	PL
2166	274492.17	8666035.8	86.716	VERD
2167	274491.9	8666037	86.794	VERD
2168	274504.36	8666036	86.647	ESQ
2169	274515.46	8666036.3	86.997	LP
2170	274515.61	8666037.3	86.844	PIST
2171	274517.72	8666039	86.884	BZ
2172	274523.37	8666037.4	87.12	PL
2173	274529.57	8666037.6	87.015	PIST
2174	274529.06	8666036.4	86.86	ESQ
2175	274530.37	8666055.5	87.116	PIST
2176	274533.23	8666056.6	87.477	PL
2177	274529.87	8666067.9	87.281	PL
2178	274532.24	8666060.4	87.431	VERD
2179	274532.65	8666067.1	87.428	LP
2180	274529.78	8666078.2	87.378	VERD
2181	274528.05	8666078.5	87.385	VERD
2182	274519.65	8666082.7	87.087	BZ
2183	274523.52	8666097	87.275	PL
2184	274522.25	8666103.8	87.358	VERD
2185	274521.76	8666105.4	87.342	VERD
2186	274523.77	8666104.2	87.373	ESQ
2187	274524.75	8666106.7	87.424	ESQ
2188	274527.86	8666126	87.366	PIST
2189	274559.33	8666133.2	87.775	PIST
2190	274511.19	8666101.6	87.179	VERD
2191	274509.97	8666102.9	87.166	VERD
2193	274504.29	8666037.5	86.717	PC VE

4592	274845.33	8666024.9	91.682	VERD
4593	274844.06	8666025.3	91.695	VERD
4594	274843.56	8666024	91.652	VERD
4595	274838.71	8666020.8	91.353	VERD
4596	274839.25	8666019.7	91.354	VERD
4597	274844.9	8666023.4	91.665	VERD
4598	274850.93	8666022	91.701	BZ
4599	274847.08	8666016.2	90.163	ESQ
4600	274851.22	8666022.6	91.7	VERD
4601	274850.8	8666021.3	91.706	VERD
4602	274851.23	8666022.6	91.53	PIST
4603	274845.4	8666024.9	91.516	PIST
4604	274851.74	8666023.4	91.546	LGAS
4605	274846.7	8666025.6	91.512	LGAS
4606	274851.4	8666041	91.659	PIST
4607	274851.92	8666039.8	91.665	LGAS
4608	274728.66	8666001.1	89.563	LGAS
4609	274730.72	8665999.5	89.753	VERD
4610	274731.1	8666002.6	89.735	VERD
4611	274738.87	8666002.1	89.856	PL
4612	274755.61	8665999.6	90.175	VERD
4613	274753.04	8665998.5	90.096	VERD
4614	274756.71	8666000.6	90.175	VERD
4615	274753.48	8666001	90.098	VERD
4616	274755.23	8665999.4	90.187	LGAS
4617	274751.9	8665998.9	90.106	VAL
4618	274756.69	8665999.9	90.189	BZ
4619	274764.75	8665998.9	90.263	R
4620	274810.88	8665993.1	91.083	PC
4621	274820.39	8665991.7	91.081	VERD
4622	274821.7	8666010	91.051	VERD
4623	274805.04	8666020.5	91.082	VERD
4624	274819.23	8666029.3	91.081	VERD
4625	274817.88	8666029	91.078	VERD
4626	274805.82	8666016.9	91.088	BZ
4627	274808.03	8666017.2	91.098	VERD
4628	274811.12	8666020.5	91.088	VERD
4629	274807.1	8666016.5	91.107	VERD
4630	274807.62	8666015.5	91.097	VERD
4631	274810.06	8666020	91.217	VERD
4632	274809.31	8666021	91.209	VERD
4633	274804.03	8666015.7	91.131	VERD

2194	274509.23	8666104.7	87.141	PUENT
2195	274517.29	8666106.9	87.225	PUENT
2196	274508.94	8666106	87.165	PUENT
2197	274517.23	8666107.3	87.23	PUENT
2198	274507.62	8666105.8	87.101	PUENT
2199	274517.18	8666107.5	87.228	PUENT
2200	274528.38	8666110.1	87.466	ESQ
2201	274520.75	8666109.9	87.128	PIST
2202	274522.64	8666109	87.295	BM1
2203	274528.74	8666113.6	87.352	BZT
2204	274532.48	8666112.2	87.538	PL
2205	274533.57	8666112.4	87.554	PT
2206	274538.73	8666112.2	87.642	LP
2207	274547.26	8666114	87.716	LP
2208	274549.81	8666117.4	87.591	BZT
2209	274548.2	8666116.2	87.547	PIST
2210	274561.35	8666118.5	87.837	PL
2211	274575.31	8666119.6	88.126	LP
2212	274576.38	8666119.8	88.159	LP
2213	274547.68	8666122.1	87.564	BZ
2214	274585.9	8666121.8	88.288	LP
2215	274590.66	8666124.5	88.278	PL
2216	274594.72	8666126.3	88.32	PIST
2217	274599.85	8666125.5	88.374	PIST
2218	274597.16	8666124	88.451	ESQ
2219	274600.4	8666121.8	88.369	ESQ
2220	274602.13	8666121.6	88.428	PIST
2221	274607.42	8666122.9	88.52	PIST
2222	274608.29	8666127.2	88.483	PIST
2223	274601.74	8666115.4	88.602	VERD
2224	274605.92	8666143.9	88.421	PIST
2225	274601.78	8666115.4	88.415	PL
2226	274608.72	8666134.5	88.452	BZ
2227	274604.07	8666104.5	88.712	VERD
2228	274605.66	8666104.5	88.579	PIST
2229	274605.68	8666104.5	88.549	PIST
2230	274612.31	8666129.6	88.505	PIST
2231	274611.38	8666104.2	88.597	PIST
2232	274612.51	8666128.6	88.591	VERD
2233	274612.73	8666126.9	88.558	VERD
2234	274609.04	8666123.2	88.507	VERD
2235	274618.85	8666129.8	88.657	PL

4634	274802.87	8666015.3	91.097	VERD
4635	274798.93	8666009.9	91.113	VERD
4636	274803.33	8666014.1	91.148	VERD
4637	274798.72	8666008.6	91.092	VERD
4638	274806.07	8666005.6	91.079	VERD
4639	274797.44	8666008.8	91.094	VERD
4640	274805.73	8666002.2	91.07	VERD
4641	274797.68	8666010	91.109	VERD
4642	274801.16	8666002.8	91.068	VERD
4643	274801.47	8666006.1	91.101	VERD
4644	274792.44	8665995.6	91.092	VERD
4645	274795.38	8666015.1	91.071	VERD
4646	274793.95	8666014.4	91.073	VERD
4647	274791.82	8666011.7	91.094	VERD
4648	274791.06	8666012.9	91.07	VERD
4649	274791.19	8666011.3	90.566	VERD
4650	274779.62	8666008	90.455	VERD
4651	274780.15	8666006.6	90.506	VERD
4652	274790.48	8666012.6	90.571	VERD
4653	274775.1	8666005	90.429	VERD
4654	274787.35	8666010.8	90.571	PL
4655	274777.81	8666003.7	90.489	PL
4656	274779.48	8666003.3	90.491	VERD
4657	274778.34	8666004.9	90.475	LGAS
4658	274756.69	8666000.5	90.183	VERD
4659	274756.43	8666001.8	90.166	VERD
4660	274756.4	8666001.7	90.144	VERD
4661	274787.08	8666001.7	90.603	R
4662	274792.57	8666011	90.756	LGAS
4663	274794.55	8666013.3	91.081	LGAS
4664	274793.73	8666015.3	91.096	LGAS
4665	274745.75	8665935.7	89.528	VERD
4666	274746.84	8665934.9	89.583	VERD
4667	274751.07	8665947.4	89.749	VERD
4668	274751.38	8665948.9	89.789	VERD
4669	274749.89	8665949.1	89.798	VERD
4670	274765.77	8665941.5	89.716	PL
4671	274747.01	8665947.3	89.737	ESQ
4672	274766.83	8665939.7	89.711	VERD
4673	274738.04	8665948.2	89.845	ESQ
4674	274768.82	8665940.5	89.724	VERD
4675	274768.49	8665936.9	89.764	VERD

2236	274632.92	8666130.2	88.88	VERD
2237	274632.7	8666131.7	88.82	VERD
2238	274632.78	8666132.8	88.818	PIST
2239	274646.95	8666133.2	89.099	PL
2240	274640.14	8666139.7	88.905	PIST
2241	274647.24	8666142.1	89.049	PL
2242	274639.91	8666140.9	88.919	PIST
2243	274639.93	8666140.9	88.882	PIST
2244	274655.12	8666140.6	89.055	PIST
2245	274654.11	8666144.6	89.149	PIST
2246	274655.32	8666134.6	89.097	PIST
2247	274651.13	8666154.7	89.124	PIST
2248	274656.98	8666133.5	89.123	PIST
2249	274657.58	8666131.9	89.078	VERD
2250	274677.05	8666150	89.444	PL
2251	274676.98	8666150.6	89.518	PIST
2252	274681.53	8666132.6	89.621	PL
2253	274680.16	8666131	89.485	VERD
2254	274680.47	8666132.6	89.45	VERD
2255	274681.38	8666133.8	89.431	PIST
2256	274674.53	8666160.7	89.527	PIST
2257	274683.59	8666139.6	89.462	PIST
2258	274697.95	8666138.1	89.717	PIST
2259	274695.67	8666131.9	89.684	PIST
2260	274693.84	8666131.2	89.716	VERD
2261	274692.72	8666129.7	89.51	VERD
2262	274673.94	8666168.5	89.534	PIST
2263	274694.59	8666128.6	89.776	ESQ
2264	274695.56	8666129.3	89.787	ESQ
2265	274700.43	8666174.1	90.003	PIST
2266	274694.69	8666132.4	89.714	BZT
2267	274705.07	8666168.8	90.049	PIST
2268	274696.08	8666140.4	89.616	BZT
2269	274706.98	8666158.3	89.994	PIST
2270	274714.58	8666135	89.88	PIST
2271	274707.04	8666157.8	89.772	PL
2272	274711.2	8666129.4	89.85	PIST
2273	274709.9	8666128.5	89.948	VERD
2274	274710.89	8666126.8	90.014	LP
2275	274737.09	8666165.7	90.313	PL
2276	274735.93	8666163.5	90.362	BZ
2277	274720.9	8666140.5	89.911	PL

4676	274750.33	8665931	89.59	VERD
4677	274750.89	8665932.3	89.587	VERD
4678	274752.69	8665929.6	89.616	VERD
4679	274762.56	8665925.3	89.767	VERD
4680	274763.21	8665926.5	89.737	VERD
4681	274774.09	8665921	89.995	VERD
4682	274751.17	8665926.7	89.592	VERD
4683	274748.72	8665928.1	89.601	VERD
4684	274774	8665922.6	89.963	VERD
4685	274757.3	8665935.7	89.628	R
4686	274777.49	8665932.9	89.851	VERD
4687	274780.43	8665933.9	89.837	VERD
4688	274780.92	8665935.3	89.843	VERD
4689	274770.3	8665931.6	89.867	VERD
4690	274772.33	8665930.9	89.867	VERD
4691	274779.82	8665935.9	89.848	VERD
4692	274771.47	8665928.7	89.613	VERD
4693	274779.17	8665938.1	89.796	VERD
4694	274780.24	8665918.8	90.037	PL
4695	274791.33	8665930.7	89.931	VERD
4696	274791.8	8665932.1	89.982	VERD
4697	274783.29	8665915.3	89.949	ESQ
4698	274787.75	8665916.9	90.08	VERD
4699	274788.24	8665918.3	90.116	VERD
4700	274797.84	8665930.4	90.07	VERD
4701	274797.4	8665929.1	90.03	VERD
4702	274789.17	8665915.9	90.097	VERD
4703	274797.86	8665930.4	90.227	VERD
4704	274799.87	8665929.6	90.26	BZ
4705	274787.42	8665933.4	89.884	PL
4706	274802.2	8665929.2	90.301	VERD
4707	274801.9	8665927.6	90.556	VERD
4708	274783.11	8665924.3	89.94	R
4709	274798.61	8665931.1	89.628	R
4710	274795.22	8665933.6	89.641	ESQ
4711	274791.31	8665930.7	89.979	VERD
4712	274792.68	8665930.3	89.997	VERD
4713	274763.99	8665924.6	89.795	PL
4714	274746.53	8665933.7	89.566	PL
4715	274610.34	8665806.7	86.843	BZ
4716	274585.98	8665798.2	86.311	VERD
4717	274584.67	8665798	86.306	VERD

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2278	274744.29	8666159.9	90.237	GRIF
2279	274753.12	8666170.4	90.757	PIST
2280	274744.04	8666160.6	90.395	VAL
2281	274753.1	8666170.5	90.74	PIST
2282	274750.67	8666163.5	90.642	PIST
2283	274751.93	8666166.4	90.689	PIST
2284	274754.13	8666170.1	90.732	PIST
2285	274753.81	8666169.1	90.709	PIST
2286	274756.58	8666161.6	90.691	PIST
2287	274758.29	8666163.7	90.719	PIST
2288	274760.55	8666170.6	90.817	PIST
2289	274759.41	8666171.3	90.856	PIST
2290	274761.19	8666164.8	90.733	PIST
2291	274760.26	8666172.2	90.87	PIST
2292	274758.59	8666160.7	90.788	VERD
2293	274766.02	8666173.3	90.878	PL
2294	274760.62	8666162.1	90.794	ESQ
2295	274768.57	8666163.2	90.807	PL
2296	274773.32	8666163.9	90.793	BZ
2297	274795.23	8666181.3	91.42	PIST
2298	274794.39	8666170.7	90.959	PIST
2299	274795.1	8666180.7	91.278	PL
2300	274819.51	8666186.9	91.861	PIST
2301	274820.19	8666184.5	91.715	VERD
2302	274823.81	8666185.1	91.862	VERD
2303	274824.46	8666187.4	92.073	PL
2304	274825.34	8666185.6	92.013	VERD
2305	274823.77	8666187.1	92.072	SEMF
2306	274830.65	8666187.9	92.212	SEMF
2307	274820.37	8666194	91.954	BZ
2308	274835.94	8666187.7	92.331	VERD
2309	274835.6	8666189.6	92.181	VERD
2310	274762.17	8666165.4	90.766	LGAS
2311	274763.52	8666164.3	90.715	PIST
2312	274763.42	8666163.4	90.72	VERD
2313	274758.71	8666163.1	90.856	PC
2314	274613.49	8666067.5	88.887	PC
2315	274758.51	8666149.8	90.764	LP
2316	274757.14	8666150	90.758	VERD
2317	274754.69	8666150.4	90.577	PIST
2318	274748.68	8666150.8	90.479	PIST
2319	274756.48	8666145.6	90.711	PL

4718	274598.31	8665808.8	86.462	R
4719	274583.85	8665805.1	86.385	VERD
4720	274582.84	8665805.1	86.374	VERD
4721	274615.24	8665813.2	86.959	VERD
4722	274613.74	8665813	86.953	VERD
4723	274612.86	8665813.2	86.645	R
4724	274612.69	8665800	86.553	ESQ
4725	274612.41	8665801.5	86.498	VERD
4726	274612.77	8665801.4	86.861	VERD
4727	274613	8665800	86.854	VERD
4728	274614.05	8665802.9	86.902	VERD
4729	274614.53	8665799.2	86.846	ESQ
4730	274617.71	8665787.4	86.786	LP
4731	274615.99	8665799.3	86.867	VERD
4732	274618.17	8665785.9	86.749	LP
4733	274619.63	8665785.6	86.751	PL
4734	274620.75	8665782.8	86.756	VERD
4735	274619.35	8665782.3	86.746	VERD
4736	274622.79	8665772.8	87.051	ESQ
4737	274619.4	8665782	87.065	VERD
4738	274620.82	8665782.5	87.062	VERD
4739	274624.25	8665773.3	87.054	VERD
4740	274621.83	8665783.7	86.541	R
4741	274623.66	8665770.5	87.065	VERD
4742	274625.17	8665771.1	87.044	VERD
4743	274628.04	8665761.9	87.074	VERD
4744	274627.67	8665759.3	87.046	VERD
4745	274629.91	8665761.9	87.055	VERD
4746	274631.92	8665763	87.104	VERD
4747	274632.72	8665761.8	87.114	VERD
4748	274630.61	8665760.5	87.064	VERD
4749	274631.14	8665759.2	87.085	PL
4750	274632.24	8665763.1	86.714	VERD
4751	274632.93	8665761.9	86.713	VERD
4752	274633.99	8665764.3	86.64	VERD
4753	274629.27	8665773.2	86.229	ESQ
4754	274625.41	8665781.3	86.286	ESQ
4755	274635.17	8665753.4	87.067	VERD
4756	274638.06	8665750.3	87.088	VERD
4757	274641.33	8665747.4	87.094	VERD
4758	274644.43	8665745.2	87.081	VERD
4759	274635.25	8665755.2	87.04	BZ

2320	274754.7	8666135.9	90.558	VERD
2321	274752.3	8666136.2	90.421	PIST
2322	274746.18	8666136.1	90.354	PIST
2323	274741.18	8666130.5	90.166	BM-04
2324	274751.9	8666133.8	90.405	PIST
2325	274752.33	8666129.8	90.394	PIST
2326	274744.12	8666131.2	90.302	PIST
2327	274755.09	8666128	90.413	PIST
2328	274755.55	8666132	90.607	ESQ
2329	274757.36	8666152.4	90.758	LGAS
2330	274772.82	8666161.2	90.885	LP
2331	274778.84	8666160.7	90.949	LP
2332	274778.52	8666162.1	90.939	VERD
2333	274778.8	8666163.3	90.835	PIST
2334	274788.09	8666161.6	90.992	LP
2335	274779.74	8666164.2	90.824	LGAS
2336	274797.39	8666162.6	91.062	LP
2337	274801.74	8666168.6	91.018	BZ
2338	274804.32	8666164.5	91.19	PL
2339	274807.68	8666163.5	91.201	LP
2340	274807.56	8666164.5	91.055	VERD
2341	274817.88	8666163.7	91.302	LP
2342	274807.85	8666165.8	91.035	PIST
2343	274807.81	8666166.6	91.068	LGAS
2344	274809.94	8666171.8	91.042	PIST
2345	274828.11	8666164.1	91.455	LP
2346	274779.84	8666169.2	90.823	PIST
2347	274767.99	8666164.9	90.746	LGAS
2348	274768.56	8666163.1	90.762	PL
2349	274742.5	8666120.8	90.341	PC
2350	274815.18	8666120.4	91.259	LP
2351	274805.57	8666122	91.147	LP
2352	274796.41	8666123.6	91.059	LP
2353	274804.96	8666120.7	91.116	VERD
2354	274796.26	8666121.8	91.063	PT
2355	274787.53	8666125.2	90.944	LP
2356	274778.65	8666126.7	90.801	LP
2357	274769.82	8666128.2	90.72	LP
2358	274769.54	8666126.8	90.712	VERD
2359	274759.08	8666128.5	90.604	PT
2360	274757.02	8666128.8	90.576	VERD
2361	274756.5	8666126.6	90.362	PIST

4760	274318.76	8665899.4	83.19	PC
4761	274324.64	8665889.6	83.296	VERD
4762	274323.63	8665888.6	83.274	VERD
4763	274333.05	8665870.1	83.103	VERD
4764	274328.51	8665879.1	83.198	VERD
4765	274334.3	8665870.6	83.106	VERD
4766	274329.8	8665879.6	83.197	VERD
4767	274333.74	8665868.7	83.089	VERD
4768	274335.39	8665868.6	83.09	VERD
4769	274336.04	8665867.1	83.073	VERD
4770	274339.87	8665859.6	83.032	VERD
4771	274338.68	8665858.9	83.032	VERD
4772	274330.04	8665867	82.965	VERD
4773	274330.92	8665866.1	82.964	VERD
4774	274341.25	8665857	83.002	VERD
4775	274341.24	8665857	83.003	ESQ
4776	274339.87	8665859.6	83.028	ESQ
4777	274340.79	8665857.6	83.007	PC
4778	274341.51	8665853.8	82.98	VERD
4779	274341.81	8665851	82.883	ESQ
4780	274340.03	8665853.5	82.982	VERD
4781	274342.92	8665852	82.928	VERD
4782	274338.59	8665849.5	82.904	VERD
4783	274331.35	8665846.4	82.892	ESQ
4784	274338.03	8665850.9	82.904	VERD
4785	274330.92	8665847.8	82.892	VERD
4786	274335.43	8665853.2	82.939	ESQ
4787	274334.37	8665849.4	82.914	PL
4788	274332.34	8665861.6	82.862	ESQ
4789	274317.04	8665836.3	82.762	PC
4790	274311.31	8665836.7	82.696	VERD
4791	274312.51	8665835	82.719	VERD
4792	274324.95	8665844.7	82.83	VERD
4793	274319.63	8665827.4	82.795	VERD
4794	274321.42	8665825.9	82.808	VERD
4795	274330.63	8665820.7	82.912	VERD
4796	274330.25	8665819.4	82.907	VERD
4797	274330.8	8665834.3	82.848	VERD
4798	274331.47	8665818.8	82.934	PL
4799	274328.5	8665834.5	82.856	BZ
4800	274335.76	8665815.7	82.945	VERD
4801	274337.53	8665814.6	82.956	VERD

2362	274756.04	8666125.8	90.344	LGAS
2363	274753.92	8666119.8	90.453	PL
2364	274745.1	8666127.6	90.187	LGAS
2365	274747.09	8666121.1	90.234	VERD
2366	274746.97	8666119.6	90.285	VERD
2367	274747.19	8666122.1	90.24	PIST
2368	274742.97	8666122.1	90.19	PIST
2369	274739.12	8666115.6	90.081	PIST
2370	274729.09	8666125.2	90.01	PIST
2371	274732.48	8666122.5	90.039	PIST
2372	274733.21	8666118.1	90.042	PIST
2373	274732.22	8666119.9	90.037	VERD
2374	274729.81	8666123.9	89.946	VERD
2375	274728.97	8666122.4	90.165	ESQ
2376	274730.48	8666119.7	90.167	ESQ
2377	274738.5	8666108.1	90.084	PIST
2378	274744.25	8666104.3	90.103	PIST
2379	274745.8	8666110.8	90.271	PL
2380	274717.18	8666126	90.005	PL
2381	274729.54	8666105.7	90.129	LP
2382	274731.15	8666105.5	89.928	VERD
2383	274732.29	8666105.5	89.954	PIST
2384	274727.9	8666086.2	90.055	LP
2385	274743.25	8666103.7	90.075	LGAS
2386	274729.62	8666086.4	89.868	VERD
2387	274730.58	8666086	89.873	PIST
2388	274742.73	8666085.5	89.989	VERD
2389	274744.23	8666085.4	89.911	VERD
2390	274732.4	8666066.1	89.859	BZ
2391	274743.24	8666077.3	90.082	PL
2392	274726.36	8666064.8	90.01	VERD
2393	274727.77	8666064.5	89.756	VERD
2394	274741.18	8666077.3	89.95	LGAS
2395	274728.87	8666064.3	89.808	PIST
2396	274740.9	8666063.6	89.804	PIST
2397	274742.48	8666063.5	89.976	VERD
2398	274723.93	8666035.8	89.804	VERD
2399	274725.58	8666035.7	89.649	VERD
2400	274726.58	8666035.9	89.661	PIST
2401	274739.08	8666041.1	89.788	PIST
2402	274740.51	8666041	89.889	VERD
2403	274738.18	8666041.2	89.772	LGAS

4802	274337.97	8665816.1	82.933	VERD
4803	274350.1	8665808.9	83.112	PL
4804	274356.86	8665806.1	83.156	VERD
4805	274358.79	8665805.4	83.125	VERD
4806	274355.6	8665808	83.161	VERD
4807	274357.73	8665808.3	83.17	VERD
4808	274368	8665817.1	83.267	VERD
4809	274368.43	8665819.1	83.253	VERD
4810	274370.18	8665818.9	83.277	VERD
4811	274370.9	8665817.4	83.26	VERD
4812	274379.55	8665804.1	83.25	VERD
4813	274378.67	8665801.8	83.216	VERD
4814	274380.05	8665801.4	83.228	VERD
4815	274381.4	8665802.8	83.273	VERD
4816	274382.16	8665805.6	83.313	ESQ
4817	274376.24	8665813.5	83.278	ESQ
4818	274376.97	8665807.2	83.275	PL
4819	274368.86	8665803.2	83.208	PL
4820	274375.24	8665805.7	83.237	BZ
4821	274379.42	8665954.9	84.754	LOZA
4822	274379.46	8665953.6	84.755	ESQ
4823	274398.77	8665958.9	84.842	ESQ
4824	274398.12	8665960.1	84.795	LZA
4825	274407.19	8665962.2	84.79	R
4826	274399.35	8665962.7	84.793	GRADA
4827	274400.56	8665963.1	84.772	GRADA
4828	274393.4	8665983.8	84.787	GRADA
4829	274394.75	8665984.1	84.83	GRADA
4830	274397.57	8665976.6	84.976	PL
4831	274431.63	8665967	85.307	R
4832	274427.43	8665956	84.995	R
4833	274431.99	8665965.7	85.565	VERD
4834	274432.64	8665967.3	85.576	ESQ
4835	274426.6	8665969	85.335	R
4836	274440.04	8665949.8	85.104	R
4837	274446.62	8665959.3	85.321	R
4838	274447.7	8665934.2	85.184	PL
4839	274459.5	8665944	85.337	R
4840	274473.26	8665941.5	85.632	R
4841	274462.38	8665953.2	85.418	PC
4842	274468.35	8665956.4	85.563	R
4843	274444.34	8665967.5	85.443	PL

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2404	274740.29	8666039.9	89.925	PL
2405	274739.65	8666029.8	89.887	VERD
2406	274738.3	8666031.2	89.725	VERD
2407	274733.44	8666027.7	89.83	ESQ
2408	274732.12	8666028.9	89.699	PIST
2409	274729.41	8666030.1	89.669	BZ
2410	274726.25	8666029.7	89.617	PIST
2411	274724.87	8666028.2	89.633	VERD
2412	274723.29	8666028	89.776	VERD
2413	274731.02	8666015.3	89.688	PIST
2414	274732.25	8666015.3	89.739	LP
2415	274731.4	8666030.5	89.698	LGAS
2416	274727.12	8666003.4	89.602	BZ
2417	274725.53	8666028.9	89.626	PC
2418	274728.68	8666001.2	89.58	LGAS
2419	274731.02	8666003.7	89.757	PL
2420	274724.58	8666024.6	89.706	VERD
2421	274725.76	8666024.4	89.659	PIST
2422	274730.71	8665999.6	89.746	LP
2423	274730.85	8666002.6	89.758	ESQ
2424	274724.65	8666020.3	89.606	PIST
2425	274720.68	8666017.6	89.494	PIST
2426	274719.38	8666011.5	89.453	PIST
2427	274723.26	8666008.4	89.519	PIST
2428	274725	8665981.6	89.482	LGAS
2429	274723.94	8666005	89.548	PIST
2430	274725.89	8665981.4	89.503	PIST
2431	274722.48	8666020.5	89.601	ESQ
2432	274727.11	8665981.1	89.608	LP
2433	274720.97	8666001.9	89.68	ESQ
2434	274724.3	8665970	89.636	PL
2435	274722.5	8666001.6	89.583	VERD
2436	274719.22	8665969.6	89.442	BZ
2437	274723.61	8666001.6	89.572	PIST
2438	274719.78	8665962.4	89.439	LGAS
2439	274718.77	8665989	89.63	LP
2440	274720.01	8665987.8	89.488	VERD
2441	274720.71	8665962.3	89.428	PIST
2442	274720.99	8665986.5	89.49	PIST
2443	274722.19	8665961.9	89.586	LP
2444	274720.79	8665957.8	89.567	ESQ
2445	274720.05	8665955.8	89.558	ESQ

4844	274488.46	8665965.1	86.228	VERD
4845	274489.73	8665966	86.264	VERD
4846	274462.24	8665973.5	85.927	VERD
4847	274461.2	8665973.9	85.963	ESQ
4848	274484.41	8665972.8	86.309	VERD
4849	274485.84	8665973.5	86.301	VERD
4850	274483.41	8665975.4	86.185	PL
4851	274462.8	8665985.7	85.942	R
4852	274483.2	8665980.1	86.341	BZ
4853	274479.24	8665989.4	86.42	BZ
4854	274465.16	8665995.5	86.012	R
4855	274478.36	8665995.1	86.468	VERD
4856	274462.39	8665999.7	85.891	VERD
4857	274479.81	8665995.6	86.494	VERD
4858	274462.39	8666001.2	85.885	VERD
4859	274477.43	8666003.1	86.515	VERD
4860	274477.21	8666004.6	86.55	VERD
4861	274478.83	8666005.1	86.554	VERD
4862	274478.96	8666003.3	86.571	ESQ
4863	274477.27	8666001.5	86.331	PL
4864	274477.75	8666004.2	86.559	PC
4865	274458.46	8666000.3	85.836	VERD
4866	274458.84	8665998.8	85.864	VERD
4867	274458.2	8666001.6	85.824	ESQ
4868	274455.07	8666000.7	85.926	VERD
4869	274498.09	8666009.3	86.563	VERD
4870	274488.32	8666005.7	86.531	PL
4871	274499.78	8666008.2	86.584	ESQ
4872	274495.05	8666010.2	86.614	ESQ
4873	274503.47	8666009.6	86.586	PC
4874	274503.18	8666003.8	86.606	VERD
4875	274511.36	8666016.7	86.618	VERD
4876	274509.97	8666019.3	86.584	VERD
4877	274519.7	8665994.4	86.627	VERD
4878	274518.94	8665997.2	86.634	VERD
4879	274514.73	8665997.4	86.618	VERD
4880	274510.95	8666000.4	86.6	VERD
4881	274511.63	8666000.3	86.609	PL
4882	274508.42	8665997.4	86.633	VERD
4883	274504.37	8665996.9	86.618	VERD
4884	274504.16	8666028.1	86.56	ESQ
4885	274503.19	8666027.5	86.568	VERD

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2446	274719.16	8665957.6	89.573	PC BM5
2447	274737.08	8666127.3	90.151	BZ
2448	274717.31	8665961.6	89.375	BZ
2449	274711.27	8665961.2	89.51	ESQ
2450	274712.75	8665960.7	89.516	VERD
2451	274713.69	8665960.3	89.323	PIST
2452	274711.12	8665956.4	89.291	PIST
2453	274705.6	8665955.8	89.187	PIST

4886	274502.13	8666026.7	86.555	VERD
4887	274494.06	8666027.2	86.543	VERD
4888	274503.43	8666036	86.831	VERD
4889	274493.23	8666030.5	86.577	VERD
4890	274503.3	8666037.1	86.717	VERD
4891	274490.82	8666034	86.775	VERD
4892	274489.5	8666033.7	86.84	ESQ
4893	274504.42	8666035.6	86.852	ESQ

Tabla 18: Puntos Topográficos



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8.6 Informe de Geodesia


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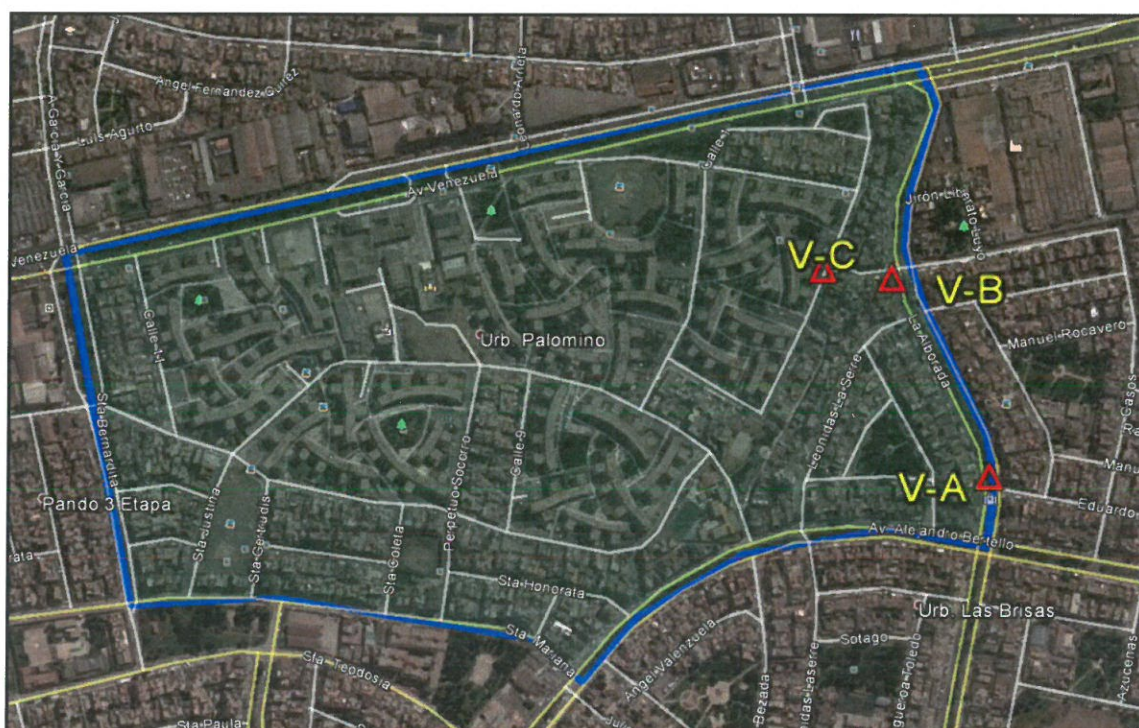


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ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

**ANEXO 4: Informe
Puntos Geodésicos**

CONSULTORIA PARA ELABORACION DE ESTUDIO DEFINITIVO Y EXPEDIENTE TECNICO DE OBRA: CAMBIO DE REDES DE ALCANTARILLADO C.H PALOMINO EN EL CERCADO DE LIMA

POSICIONAMIENTO DE PUNTOS DE CONTROL GEODÉSICO



Julio Pacheco Ramos
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JUNIO 2016


CONSORCIO PROYECTOS LIMA

ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

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CONSORCIO PROYECTOS LIMA

ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

SERVICIO EFECTUADO:

El servicio efectuado consistió en:

Posicionamiento de Puntos de Control Geodésico; para ello se estableció 03 Puntos Base con el equipo "Sokkia GSX2", puntos de control para el Proyecto **"CONSULTORIA PARA ELABORACION DE ESTUDIO DEFINITIVO Y EXPEDIENTE TECNICO DE OBRA: CAMBIO DE REDES DE ALCANTARILLADO C.H PALOMINO EN EL CERCADO DE LIMA"** enlazado al Punto **HITO-L01** de orden "0" perteneciente al instituto geográfico nacional (IGN), ubicado entre la av. Aramburu y calle 3, en el distrito de Surquillo- Lima, los puntos se encuentran ubicados estratégicamente dentro del área de trabajo en la provincia de LIMA - LIMA.

1. METODOLOGÍA UTILIZADA:

Para lo siguiente se llevó a cabo bajo la participación de personal con experiencia, para los trabajos elaborados de: Geodesia

En la ejecución del trabajo con GPS se utilizó el método de **GPS de Posicionamiento Satelital Estático**.

Este método consiste en posicionar 01 Receptor GPS en la Base (L01), que es un punto ERP (Estación de Rastreo Permanente) con Coordenadas conocidas **L01**, y 01 Receptor ROVER, se ubicó en los Puntos con coordenadas por conocer.


A partir del Punto Base **"HITO L01"**, se enlazó los Puntos de Control Geodésico denominados: **"V-A-V-B, V-C"**.

Mediante Enlace Estático GPS, utilizando 02 Receptores Satelitales GSX2 Sokkia de Doble Frecuencia. Los Puntos Rover fueron posicionados durante más de 2 horas.

Los receptores-Rover recibieron simultáneamente las ondas de radio emitidas por los satélites, controlándose el número de satélites y la Dilución de Precisión de Posición (PDOP), para el caso de alta precisión es de 4 o 5 satélites y PDOP menor o igual a 4.

Las coordenadas geodésicas WGS-84 fueron obtenidas como resultado de los datos de campo, mediante Post-Proceso, utilizando el **Software de Post-proceso TOPCON TOOLS con llave USB** y para ajustar la cota al nivel del mar el modelo EGM2008_Perú.




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DIRECTOR DE PROYECTO

ESPECIFICACIONES TÉCNICAS

SISTEMA DE COORDENADAS:

- Proyección: Universal Transversal Mercator (UTM)
- Datum Horizontal: WGS84
- Datum Vertical: Modelo Geoidal "EGM2008_Peru "
- Zona: UTM-SUR-ZONA-18: 78W to 72W
- Datum Cartográfico: La cartografía a presentar se efectuó en la Proyección Cartográfica Universal Transversal de Mercator (UTM)

2. UBICACIÓN:

Ciudad : Cercado de Lima
Provincia y Departamento : Lima - Lima

3. FECHA DE EJECUCIÓN:

- El trabajo se llevó a cabo en 7 de Junio del 2016.

4. SOPORTE TÉCNICO:

- **Personal** : Ing. Anthony Gallardo Prado
- **Equipos** :
 - 03 Receptores GPS Modelo Sokia GSX2
 - 03 Trípodes, 03 winchas metálicas, 03 tribach,
 - 03 adaptadores de antena.




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DIRECTOR DE PROYECTO

▪ **ESPECIFICACIONES TÉCNICAS DEL EQUIPO :**

GSX2

SPECIFICATIONS

GNSS Receiver

Tracking Capability	
Number of Channels	226 channels
Tracked Signals	GPS, GLONASS, SBAS, QZSS, Galileo*, and COMPASS*
Antenna	Integrated
Positioning Accuracy	
Fast Static (L1)	H: 3mm + 0.8ppm V: 4mm + 1.0ppm
Fast Static (L1 + L2)	H: 3mm + 0.5ppm V: 5mm + 0.5ppm
Kinematic (L1, L1+L2)	H: 10mm + 1.0ppm V: 15mm + 1.0ppm
DGPS	< 0.4m
SBAS	< 0.6m
RTK (L1 + L2)	H: 10mm + 1.0ppm V: 15mm + 1.0ppm
Autonomous	< 1.2m
Maximum Data Rate	20Hz
Data Management	
Memory	4GB internal memory (Firmware limit of 2GB of static data)
Real Time Data Output	TPS; RTCM SC104 v 2.x, 3.x; CMR/CMR+
ASCII Output	NMEA 0183 v 2.x and 3.0
Communication Ports	Bluetooth, Serial, USB (Client)
Wireless Communication	
Bluetooth Modem	V.1.1.1; Class 1; 115,200bps
RTK Communication	Over 300m with up to 3 simultaneous rovers
General	
Dust/Water Protection	IP67 (IEC 60529:2001)
Shock	6.56ft. (2m) pole drop
Operating Temperature	-20°C to +65°C with internal batteries; -40°C to +65°C with external power;
Display	MINTeR
Size	W6 x D6 x H1.5in. (W150 x D150 x H64mm)
Weight	Approx. 1.87lb. (850g)
Power supply	
Battery	Internal
Operating Time	Up to 20 hours
External Power Connector	Yes

* Galileo and COMPASS support will be incorporated into GSX2 when these constellations have matured and are ready for commercial use.



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5. COORDENADAS DEL PUNTO BASE "L01":

COORDENADAS GEODESICAS WGS 84 BASE: L01

PUNTO	LATITUD	LONGITUD	ALTURA
L01	12°06'10.863860"S	77°01'00.987720"W	157.6097

COORDENADAS UTM WGS 84 BASE: L01

PUNTO	NORTE	ESTE	ELEVACIÓN
L01	8661244.451	280479.727	133.9665

6. RESUMEN DE PUNTOS DE CONTROL GEODESICOS

DESCRIPCION	COORDENADAS GEOGRAFICAS			COORDENADAS UTM WGS-84		
	LATITUD	LONGITUD	ALTURA ELIPSOIDAL (M)	ESTE (M)	NORTE (M)	ELEVACION (M)
LI01	12°06'10.86386"S	77°01'00.98772"W	157.609	280479.727	8661244.451	133.966
V-B	12°03'34.52305"S	77°04'03.08183"W	116.238	274936.03	8666008.359	92.944
V-C	12°03'34.21771"S	77°04'05.48056"W	114.868	274863.398	8666017.196	91.583

7. CONCLUSIONES Y OBSERVACIONES:

- Los Puntos de Control Geodésico, fueron posicionados, en lugares previamente establecidos por el Cliente, mediante marcas pintadas en veredas.
- El posicionamiento de los Puntos de Control, fueron relacionados a la Señal enlazada a la señal del Hito L01 de Orden "0" ERP (Estación de Rastreo Permanente), con resultados óptimos y precisos (menos a 1 cm), obtenidos en el Post Proceso.



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DIRECTOR DE PROYECTO

REPORTES:

Se adjunta:

Anexo I : Ficha Técnica del Hito Base L01


Anexo II : Reporte de Post Proceso en el Sistema WGS 84

Anexo III : Ficha Descriptiva de los Puntos Posicionados con Fotografía

Atentamente,

Ing. Anthony Gallardo Prado




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ANEXO I
FICHA TÉCNICA DE LA
BASE "L01"





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INSTITUTO GEOGRAFICO NACIONAL
CENTRO DE PROCESAMIENTO GEODÉSICO



FORMULARIO DE INFORMACIÓN DE LA ESTACIÓN GPS PERMANENTE

1. FORMULARIO

Preparado por	Instituto Geográfico Nacional – Centro de Procesamiento Geodésico
Creado	15 de Abril del 2010
Actualizado	04 de Agosto del 2010

2. INFORMACIÓN DE LA ESTACIÓN GPS

Nombre de la Estación	Surquillo
Código de Identificación	LI01
Código Internacional	42203M001
Inscripción del monumento	Sin inscripción
Institución a cargo del mantenimiento	Instituto Geográfico Nacional
Responsable del mantenimiento	Centro de Procesamiento Geodésico
e-mail	cpg@ign.gob.pe
Institución propietaria del instrumento	Instituto Geográfico Nacional
Orden de la Estación	0
Información adicional	Esta estación forma parte de la Red Geocéntrica Nacional, a cargo del Instituto Geográfico Nacional, Centro de Procesamiento Geodésico.

3. INFORMACIÓN SOBRE LA LOCALIZACIÓN

Localidad	Surquillo
Provincia	Lima
Departamento	Lima
Información sobre el monumento	La antena del receptor esta instalada sobre un monumento de concreto de 1.34 m de alto, 30 cm x 51 cm de ancho de color rojo teja. El monumento está colocado en el techo del museo del Instituto Geográfico Nacional.
Información sobre el receptor	El receptor está instalado en la Sala de Servidores de la mencionada institución.

USUARIO CHACON RODRIGUEZ, ROSSMERY

FECHA 27/01/2015 04:25 p.m. FACTURA N° 001-0141745





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CONSORCIO PROYECTOS LIMA

ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

GEODESIA
POSICIONAMIENTO DE PUNTOS DE CONTROL GEODÉSICO



INSTITUTO GEOGRAFICO NACIONAL
 CENTRO DE PROCESAMIENTO GEODÉSICO

4. COORDENADAS DE LA ESTACIÓN

A. Coordenadas Geodésicas

A.1 Marco de referencia utilizado
 ITRF 2000

A.2 Latitud (S)

°	min	s
12	6	10.86386

A.3 Longitud (O)

°	min	s
77	1	0.98772

A.4 Altura Elipsoidal
 Altura (m)
 157.6097

A.5 Factor de escala planimétrico
 Factor
 1.000195939


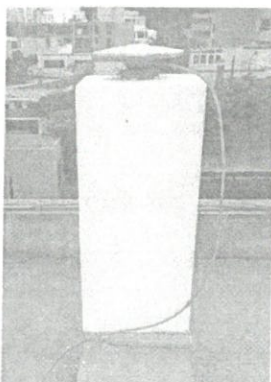
B. Coordenadas Cartesianas


X (m)	Y (m)	Z (m)
1401320.96870	-6077986.48690	-1328580.50910

C. Coordenadas UTM

Norte (m)	Este (m)	Zona
8661244.45075500	280479.72744031	18 Sur

5. CROQUIS DE LA ESTACIÓN



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FECHA: 27/01/2015 04:25 p.m. FACTURA N° 001-0141745


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 DIRECTOR DE PROYECTO

GEODESIA
POSICIONAMIENTO DE PUNTOS DE CONTROL GEODÉSICO



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6. INFORMACIÓN SOBRE EL EQUIPAMIENTO GPS

A. Receptor

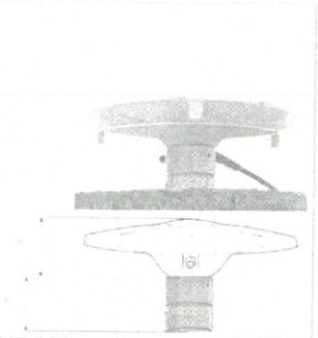
Tipo	Trimble Net R5
Nº de serie	4806K53394
Versión del Firmware	4.03
Fecha de Instalación	Junio del 2008

B. Antena

Tipo	Antena Zephyr Geodetic 2
Nº de serie	30738913
Altura (m)	0.08946
Medición de la Antena	Base de soporte de la antena
Fecha de la instalación	Junio del 2008

7. ESQUEMA DE LA ANTENA

A. Esquema de altura de antena



a	Distancia de compensación de centro de fase (Phase center Offset). a = 8.54 cm
b	Distancia entre la base de soporte de la antena y el límite superior del monumento. b = 0.4 cm

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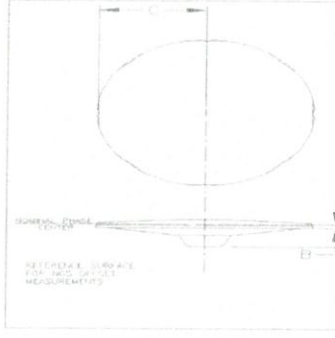
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B. Esquema de antena en uso



DIMENSIONS		DESCRIPTION
A	250.5 ft (76.31 m)	BOTTOM OF ANTENNA TO GROUND
B	220.5 ft (67.17 m)	HEIGHT OF GROUND SURFACE TO ANTENNA
C	66.0 ft (20.11 m)	HEIGHT OF ANTENNA TO GROUND


 TRIMBLE CENTER OF ANTENNA (TCA) TO GROUND
 ANTENNA REFERENCE SURFACE (ARS)
 GROUND POINT CENTER IS THE REFERENCE SURFACE FOR HEIGHT MEASUREMENTS

8. INFORMACIÓN COMPLEMENTARIA

Observables	L1, C1, L2, P2
Intervalo de registro	5 segundos
Angulo de máscara	10°
Archivamiento diario	Si
Formato de archivo en crudo	* T01, *.dat
Servidor de búsqueda	

INFORMACIÓN SOBRE EL PROCESAMIENTO

Periodo de toma de datos para el procesamiento	19 de Abril al 24 de Julio del 2010
Software utilizado	Gamit/GlobK v. 10.35
Formato de archivo procesado	Rinex

9. INFORMACIÓN ADICIONAL

Contacto:

Nombre	Centro de Procesamiento Geodésico
Dirección	Av. Aramburú 1190 Surquillo, Lima 34, Perú
Teléfono	(51) 1 4753085 Anexo 123
Fax	(51) 1 4753075
e-mail	cpg@ign.gob.pe

USUARIO: CHACON RODRIGUEZ, ROSSMERY FECHA: 27/01/2015 04:25 p.m. FACTURA N° 001-0141745



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ANEXO II
**REPORTE DE POST
PROCESO**



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CONSORCIO PROYECTOS LIMA

ING. ELIAS MOGOLLON ESCOBAR
DIRECTOR DE PROYECTO

POST- PROCESO PUNTO LI-01 CON V-A



Project name: PROYECTO LIMA.ttp

Linear unit: Meters

Angular unit: DMS

Projection: UTMSouth-Zone_18 : 78W to 72W

Datum: WGS84

Geoid: EGM2008_Peru

Time Zone: SA Pacific Standard Time

Point Summary													
Name	Latitude	Longitude	Ell.Height (m)	Grid Easting (m)	Grid Northing (m)	Elevation (m)	Control	Std Dev n (m)	Std Dev e (m)	Std Dev Hz (m)	Std Dev u (m)	Combined Grid to Ground Scale	Combined Ground to Grid Scale
LI01	12°06'10.86386"S	77°01'00.98772"W	157.609	280479.727	8661244.451	134.596	Both	0	0	0	0	0.999828546	1.000171483
V-A	12°03'41.79025"S	77°03'59.63872"W	115.239	275099.835	8667605.207	93.596	None	0.002	0.003	0.004	0.007	0.999791567	1.000208477

GPS Occupations			
Point Name	Antenna Type	Antenna Height (m)	Duration
LI01	TRM55971.00 TZGD	0.089	24:00:00
V-A	GSX2	1.456	77786:12:55

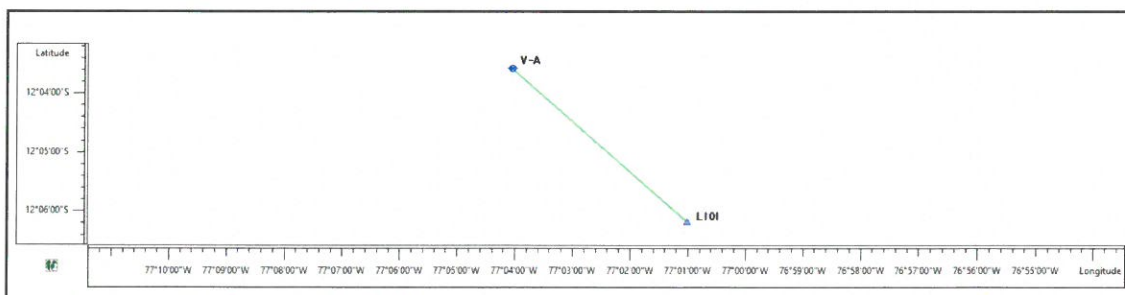
GPS Observations												
Name	Base Antenna Type	Rover Antenna Type	Base Antenna Height (m)	Rover Antenna Height (m)	Distance (m)	Horz RMS (m)	Vert RMS (m)	GPS Satellites	GLONASS Satellites	Duration	PDOP	Azimuth
LI01-V-A	TRM55971.00 TZGD	GSX2	0.089	1.456	7090.568	0.004	0.006	11	9	18:44:39	1.618	129°56'53.3741"

Adjustment

- Control Tie Analysis: **success**
- Adjustment type: **Plane + Height, Minimal constraint**
- Confidence level: **95 %**
- Number of adjusted points: **2**
- Number of plane control points: **1**
- Number of used GPS vectors: **1**
- A posteriori plane or 3D UWE: **1**, Bounds: (1 , 1)
- Number of height control points: **1**
- A posteriori height UWE: **1**, Bounds: (1 , 1)



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CONSORCIO PROYECTOS LIMA

INC. ELIAS MCGOLLON ESCOBAR
DIRECTOR DE PROYECTO

POST- PROCESO PUNTO LI-01 CON V-B



Project name: PROYECTO LIMA.ttp

Linear unit: **Meters**

Angular unit: **DMS**

Projection: **UTMSouth-Zone_18 : 78W to 72W**

Datum: **WGS84**

Geoid: **EGM2008_Peru**

Time Zone: **SA Pacific Standard Time**

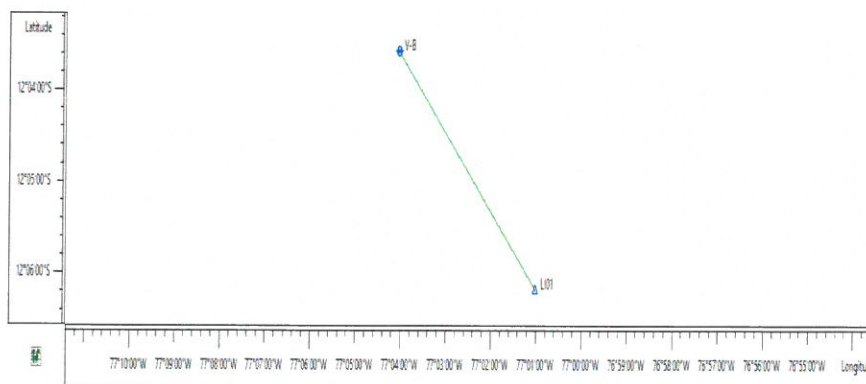
Point Summary													
Name	Latitude	Longitude	Ell.Height (m)	Grid Easting (m)	Grid Northing (m)	Elevation (m)	Control	Std Dev n (m)	Std Dev e (m)	Std Dev Hz (m)	Std Dev u (m)	Combined Grid to Ground Scale Factor	Combined Ground to Grid Scale Factor
LI01	12°06'10.86386"S	77°01'00.98772"W	157.609	280479.727	8661244.451	133.966	Both	0	0	0	0	0.999828546	1.000171483
V-B	12°03'34.52305"S	77°04'03.08183"W	116.238	274936.03	8668008.359	92.944	None	0.002	0.003	0.004	0.007	0.999791567	1.000208477

GPS Occupations			
Point Name	Antenna Type	Antenna Height (m)	Duration
LI01	TRM55971.00 TZGD	0.089	24:00:00
V-B	GSX2	1.568	02:12:51

GPS Observations													
Name	Base Antenna Type	Rover Antenna Type	Base Antenna	Rover Antenna	Distance (m)	Horz RMS (m)	Vert RMS (m)	GPS Satellites	GLONASS Satellites	Duration	PDOP	Azimuth	Elevation Mask
LI01-V-B	TRM55971.00 TZGD	GSX2	0.089	1.568	7308.134	0.004	0.006	11	9	18:44:39	1.618	311°05'45.7062"	10

Adjustment

- Control Tie Analysis: **success**
- Adjustment type: **Plane + Height, Minimal constraint**
- Confidence level: **95 %**
- Number of adjusted points: **2**
- Number of plane control points: **1**
- Number of used GPS vectors: **1**
- A posteriori plane or 3D UWE: **1 , Bounds: (1 , 1)**
- Number of height control points: **1**
- A posteriori height UWE: **1 , Bounds: (1 , 1)**



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POST- PROCESO PUNTO LI-01 CON V-C



Project name: PROYECTO LIMA.ttp

Linear unit: **Meters**

Angular unit: **DMS**

Projection: **UTMSouth-Zone_18 : 78W to 2W**

Datum: **WGS84**

Geoid: **EGM2008_Peru**

Time Zone: **SA Pacific Standard Time**

Point Summary

Name	Latitude	Longitude	Ell.Height (m)	Grid Easting (m)	Grid Northing (m)	Elevation (m)	Control	Std Dev n (m)	Std Dev e (m)	Std Dev Hz (m)	Std Dev u (m)	Combined Grid to Ground Scale	Combined Ground to Grid Scale Factor
LI01	12°06'10.86386"S	77°01'00.98772"W	157.609	280479.727	8661244.451	133.966	Both	0	0	0	0	0.999828546	1.000171483
V-C	12°03'34.21771"S	77°04'05.48056"W	114.868	274863.398	8666017.196	91.583	None	0.002	0.003	0.004	0.011	0.999790947	1.000209097

GPS Occupations

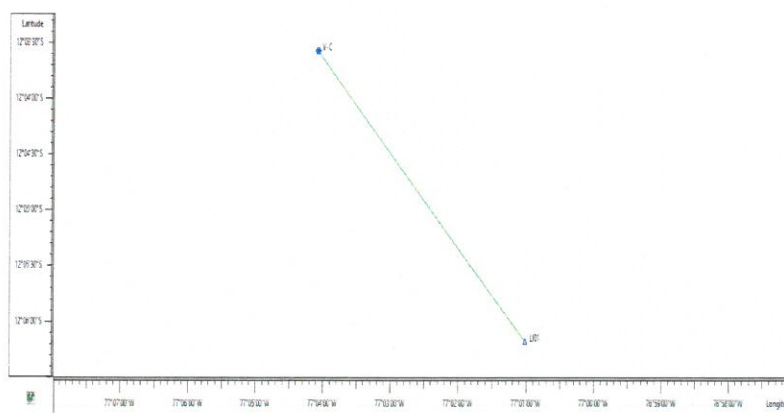
Point Name	Antenna Type	Antenna Height (m)	Duration
LI01	TRM55971.00 TZGD	0.089	24:00:00
V-C	GSX2	1.536	02:07:17

GPS Observations

Name	Base Antenna Type	Rover Antenna Type	Base Antenna Height (m)	Rover Antenna Height (m)	Distance (m)	Horz RMS (m)	Vert RMS (m)	GPS Satellites	GLONASS Satellites	Duration	PDOP	Azimuth	Elevation Mask
LI01-V-C	TRM55971.00 TZGD	GSX2	0.089	1.536	7369.085	0.004	0.01	13	9	02:07:17	1.551	310°46'48.4681"	10

Adjustment

- Control Tie Analysis: **success**
- Adjustment type: **Plane + Height, Minimal constraint**
- Confidence level: **95 %**
- Number of adjusted points: **2**
- Number of plane control points: **1**
- Number of used GPS vectors: **1**
- A posteriori plane or 3D UWE: **1**, Bounds: (**1** , **1**)
- Number of height control points: **1**
- A posteriori height UWE: **1**, Bounds: (**1** , **1**)



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ANEXO III
**FICHA DESCRIPTIVA DE
LOS PUNTOS GPS**

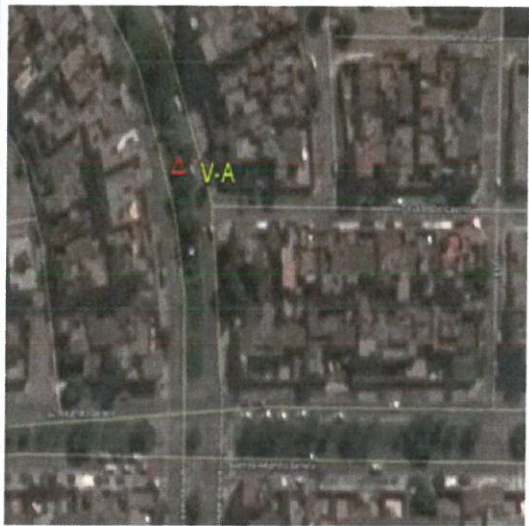



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CONSORCIO PROYECTOS LIMA

ING. ELIAS MOSOLLON ESCOBAR
DIRECTOR DE PROYECTO

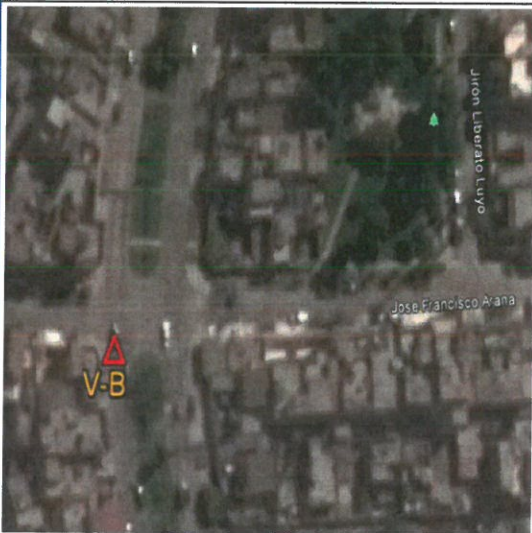

GEODESIA
POSICIONAMIENTO DE PUNTOS DE CONTROL GEODÉSICO

FICHA TÉCNICA	
NOMBRE DE ESTACIÓN V-A	PROYECTO: CONSULTORIA PARA ELABORACION DE ESTUDIO DEFINITIVO Y EXPEDIENTE TECNICO DE OBRA: CAMBIO DE REDES DE ALCANTARILLADO C.H PALOMINO EN EL CERCADO DE LIMA
	TÉCNICA DE MEDICIÓN: GPS-MODO ESTÁTICO
COORDENADAS UTM WGS84: ZONA 18 SUR Este : 275042.495 Norte: 8665798.588 Elevación (EGM 2008): 93.596	COORDENADAS GEOGRÁFICAS WGS84: ZONA 18 SUR Latitud: 12°03'34.52305"S Longitud: 77°04'03.08183"W Altura Elipsoidal: 115.239
Modelo Geoide: EGM 2008	Determinado Por: Ing. Anthony Gallardo
Fecha 07 DE JUNIO 2016	Equipo SOKIA GSX2
ITINERARIO El hito se encuentra en el país de Perú, Departamento de Lima, Provincia de Lima. Se ubica en toda la Avenida la Alborada y calle Eduardo del Castillo. En la berma central de la av. Alborada, junto a una conexión domiciliaria de agua potable.	
CARACTERÍSTICAS DEL PUNTO: La marca del punto A es una placa de bronce incrustada en la vereda.	
	
DESCRITA POR: Ing. Anthony Gallardo	





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GEODESIA
POSICIONAMIENTO DE PUNTOS DE CONTROL GEODÉSICO

FICHA TÉCNICA	
NOMBRE DE ESTACIÓN V-B	PROYECTO: CONSULTORIA PARA ELABORACION DE ESTUDIO DEFINITIVO Y EXPEDIENTE TECNICO DE OBRA: CAMBIO DE REDES DE ALCANTARILLADO C.H PALOMINO EN EL CERCADO DE LIMA
	TÉCNICA DE MEDICIÓN: GPS-MODO ESTÁTICO
COORDENADAS UTM WGS84: ZONA 18 SUR Este : 274936.030 Norte: 8666008.359 Elevación (EGM 2008): 92.944	COORDENADAS GEOGRÁFICAS WGS84: ZONA 18 SUR Latitud: 12°03'34.52305"S Longitud: 77°04'03.08183"W Altura Elipsoidal: 116.238
Modelo Geoide: EGM 2008	Determinado Por: Ing. Anthony Gallardo
Fecha 07 DE JUNIO 2016	Equipo SOKIA GSX2
ITINERARIO El hito se encuentra en el país de Perú, Departamento de Lima, Provincia de Lima Se ubica en el cruce de las Av. Jose Francisco Arana y Av. La Alborada. Al costado de un deposito verde de residuos	
CARACTERÍSTICAS DEL PUNTO: La marca del punto B es una placa de bronce incrustada en la verda.	
<div style="display: flex; justify-content: space-around;">   </div>	
DESCRITA POR: Ing. Anthony Gallardo	



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FICHA TÉCNICA	
NOMBRE DE ESTACIÓN V-C	PROYECTO: CONSULTORIA PARA ELABORACION DE ESTUDIO DEFINITIVO Y EXPEDIENTE TECNICO DE OBRA: CAMBIO DE REDES DE ALCANTARILLADO C.H PALOMINO EN EL CERCADO DE LIMA
	TÉCNICA DE MEDICIÓN: GPS-MODO ESTÁTICO
COORDENADAS UTM WGS84: ZONA 18 SUR Este: 274863.398 Norte: 8666017.196 Elevación (EGM 2008): 91.583	COORDENADAS GEOGRÁFICAS WGS84: ZONA 18 SUR Latitud: 12°03'34.21771"S Longitud: 77°04'05.48056"W Altura Elipsoidal: 114.868
Modelo Geoide: EGM 2008	Determinado Por: Ing. Anthony Gallardo
Fecha 07 DE JUNIO 2016	Equipo SOKIA GSX2
ITINERARIO El hito se encuentra en el país de Perú, Departamento de Lima, Provincia de Lima Se ubica en el cruce de las Ca. Santa Francisca Romana y Jose Francisco Arana .	
CARACTERÍSTICAS DEL PUNTO: La marca del punto C es una varilla de fierro de 1/2 pulgada.	
	
DESCRITA POR: Ing. Anthony Gallardo	



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