

Appendix A AERA OHL Letter



MINISTRY OF ENERGY OF THE REPUBLIC OF AZERBAIJAN
ENERGY REGULATORY AGENCY

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30 " 08 2021

№ AERA-01-06-504/21

Mr. Abdulla Zayed

Head, Development & Investment (Central Asia & Russia),
Abu Dhabi Future Energy Company PJSC – Masdar

Subject: Overhead Transmission Lines: Area 60 Solar PV Project

Dear Mr. Abdulla,

I hope this letter finds you and Masdar team well.

I refer to the Project Documents signed between the Ministry of Energy of the Republic of Azerbaijan, Azerenerji and Abu Dhabi Future Energy Company PJSC - Masdar ("Masdar") dated 7th April 2021. We would like to reiterate the importance of the continued collaboration between Masdar and the main stakeholders in the Republic of Azerbaijan to support the development activities related to the 230MWac solar project at Area 60 (the "Project").

In relation to the single-circuit 330 kV overhead transmission line, 55 km long (the "OHL"), we hereby confirm that the OHL is not being built solely for the purposes of Project. The OHL will serve a number of other projects and plants in future.

The Government of the Republic of Azerbaijan ("GOA") has already established Alat Trade Zone next to the area of the Project (located in the Alat region), and electricity demand is expected to increase significantly in future in that area from a mixture of public and private sector enterprises.

Yours sincerely,

Rovshan Ismayilov
Deputy Chairman of the Board,
Acting Chairman

Appendix B Proposed Project Layout

SITE SUMMARY:

SITE BOUNDARY AREA= 5495340m²
 FENCE AREA=5489726m²
 FENCE PERIMETER=11225m

SYSTEM SPECIFICATION
 DC CAPACITY=310.99MW
 AC CAPACITY=266.84MW

EQUIPMENT QUANTITIES
 5142 TOTAL TRACKERS
 575904 TOTAL MODULES
 20568 TOTAL STRINGS







29 MV STATIONS
 20 POWER BLOCKS WITH 177 TRACKERS EACH
 9 POWER BLOCKS WITH 178 TRACKERS

PV MODULE SPECIFICATIONS:
 LR5-72HBD 520-545M
 RATED POWER=540W
 OPEN CIRCUIT VOLTAGE=49.50V
 MODULE EFFICIENCY=21.1%
 DIMENSIONS: 2256×1133×35mm

INVERTER SPECIFICATION
 HUAWEI SUN2000-200KTL
 MAX PV INPUT VOLTAGE=1500V
 AC OUTPUT POWER=209.12kVA@38.2° C
 44 INVERTERS PER STATION

MOUNTING SYSTEM SPECIFICATION
 BIFACIAL SINGLE AXIS TRACKER
 4 STRINGS PER TRACKER
 28 MODULES PER STRING
 TRACKING ANGLE RANGE: ±60°
 Azimuth=0°
 PITCH=14 m

LEGEND

-  PV Trackers
-  Road in site
-  Access road
-  MV Transformer
-  Fence
-  Camera

APPROVED		Area 60 Solar Power PROJECT		Bidding STAGE	
				General layoutSECTION	
VERIFIED		General Layout of PV Plant			
EXAMINED					
CHECKED					
DESIGNED					
DRAWN					
CERTIFICATED	MOHURD, PRC	SCALE		DATE	2021.10
D.C.No.		DRAWING No.			



Access road

Transformers

Road in site

Temporary area for construction (7000m²)



Camera



Step-up substation



Appendix C Key Features along the OHL Route



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL - 12	356944.2 4	4424914.31	Livestock farm outside the OHL route	<div data-bbox="1267 316 1749 635" data-label="Image"> </div> <div data-bbox="1182 667 1834 1050" data-label="Image"> </div>

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
Between points RL-1 and RV-3	-	-	OHL intersecting the 330 kV "Alyat SPP – Janub PP" OHL route	<div data-bbox="1258 316 1753 735" data-label="Image"> <p>An aerial satellite photograph of a desert region. A bright pink line is drawn across the terrain, connecting two points. The point at the bottom left is labeled 'RL-1' and the point at the top right is labeled 'RV-3'. The terrain is arid with some small pools of water and sparse vegetation.</p> </div> <div data-bbox="1258 767 1760 1139" data-label="Image"> <p>A ground-level photograph of a utility pole. The pole is dark and stands in a flat, arid landscape. Several power lines are visible stretching across the sky. In the background, there are low, brown hills under a clear sky.</p> </div>



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RL-1	356924.3 3	4423989.15	Baku-Gazakh-Georgia railway	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
GA-new-1	-	-	<p>Green zone between Baku-Gazakh-Georgia railway and Baku-Gazakh-Astara-Georgia highway (right side of the road).</p> <p>The height of the trees does not exceed 3-4 m.</p> <p>The greenery consists mainly of pine, fir-tree, hornbeam, acacia, etc.</p>	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
CR-1	356824.5 5	4423851.13	At this point, indicated as CR-1 in the KMZ file, there is a green area located on the right side of the road between the Baku-Gazakh-Georgia railway and the Baku-Gazakh-Astara-Georgia highway.		



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RL-1	356695.1 6	4423649.98	Baku-Gazakh-Astara-Georgia highway	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
GA-new-2	-	-	<p>At this point, indicated as CR-2 in the KMZ file, there is a green area is located on the left side of the road between the Baku-Gazakh-Georgia railway and the Baku-Gazakh-Astara-Georgia highway. The height of the trees is 5-6 m and more.</p>	<div data-bbox="1227 316 1787 794" data-label="Image"> </div> <div data-bbox="1227 810 1787 1281" data-label="Image"> </div>



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
FW-1	356477.1 9	4423341.28	In this area, the future route of the 330 kV Alyat SPP - Janub PP TL intersects with two plastic water lines, one gas line and two OHLs of different voltages.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
FW-2	356452.6 0	4423304.31	This point is close to point FW-1, through which water line a large diameter passes. A swamp was formed as a result of leaks from the water line laid by a plastic pipe passing through the left side of this line (see: point in photo FW-1)	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
CR-3	356311.5 6	4423100.36	There is an empty plot of land not used for planting here.		
					



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-1	355814.6 9	4422378.82	There is a shallow ditch passing perpendicular to the future route of 330 kV "Alyat SPP – Janub PP TL" at this point	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-2	355667.9 5	4422161.92	At this point, the dirt road runs parallel to future route of 330 kV "Alyat SPP - Janub PP" TL.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
TR-2	355658.1 8	4422150.04	The area is covered with sparse vegetation.		

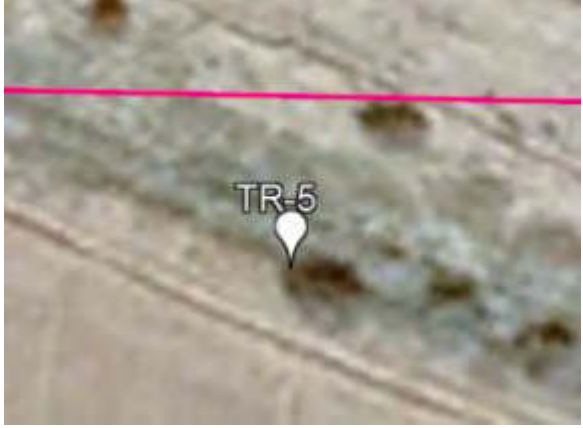

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-3	355420.2 9	4422008.87	Two plastic water lines cross the future route of "Alyat SPP – Janub PP TL" and there are naturally growing tamariks bushes located in this area. The height of the bushes is less than 4-5 m.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-4	355256.2 1	4422014.04	The area consists of an empty area covered with naturally growing sparse tamariks and wormwood.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-3	354833.9 2	4422033.16	From this point, there is a dirt road and through its right side is a shallow ditch pass.	 

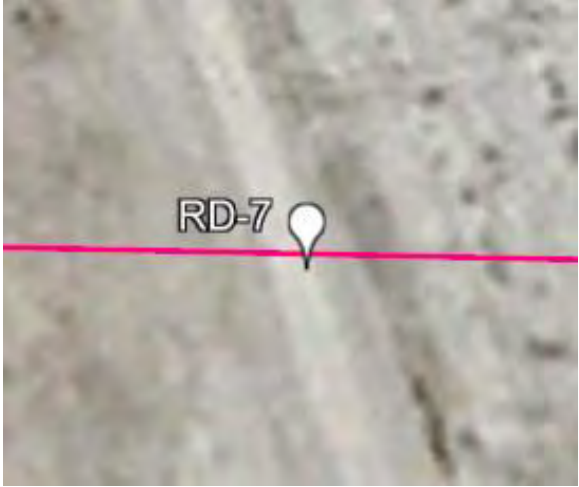

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-4	354729.0 7	4422034.96	From this point, a dirt road and a shallow ditch pass. Light-weight construction booth is located on the right side of the road.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
CR-4	354612.1 0	4422036.95	This point is an empty plot of land, through which a shallow ditch passes.	<div data-bbox="1193 316 1821 730">  </div> <div data-bbox="1193 746 1821 1169">  </div>

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
TR-5	354270.7 3	4422037.28	This point consists of an empty area with sparse tamariks bushes not exceeding 2-3 m in height.	 	



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-5	354218.6 7	4422062.14	From this point, a dirt road crosses the future route of "Alyat SPP – Janub PP" TL and ditch passes on its right side.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-6	354038.4 2	4422065.55	From this point, there is a dirt road and on its right side shallow ditch pass.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-7	353733.1 0	4422074.88	From this point there is a dirt road and natural tamariks bushes on the right side of the road.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
RV-4	353602.3 1	4422080.62	There is a massif of natural tamariks bushes at this point.	 	

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-6	353589.9	4422082.19	There is a massif of densely growing natural tamariks bushes at this point, not exceeding 3-4 m in height.	<div data-bbox="1229 312 1787 762" data-label="Image"> <p>An aerial satellite image showing a point labeled 'TR-6' with a white location pin. A horizontal red line is drawn across the image, passing through the point. The terrain appears to be a mix of light and dark patches, possibly representing different vegetation or soil types.</p> </div> <div data-bbox="1211 794 1800 1230" data-label="Image"> <p>A ground-level photograph showing a dense thicket of green bushes, likely tamariks, growing in a field. The bushes are tall and leafy, with some dry grass visible in the foreground.</p> </div>



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RV-5	353078.2	4422092.30	<p>There is a massif of densely growing natural tamariks bushes at this point, not exceeding 3-4 m in height. A large-diameter pipeline runs on the right side of the bush in the south direction.</p>	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-7	352711.7	4422103.61	There is a massif of densely growing natural tamariks bushes at this point, not exceeding 3-4 m in height.	<div data-bbox="1238 316 1778 756">  </div> <div data-bbox="1189 788 1827 1235">  </div>



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
EP-1	352420.9 4	4422471.01	From this point, a plastic pipeline runs through the trench that crosses the future route of the "Alyat SPP – Janub PP" TL.	 	



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL-13	352016.8 7	4422145.79	At this point, a cattle farm is located approximately 400 m from the TL route.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-9	352016.3	4422163.67	At this point a dirt road is located, that crosses the TL route and then runs parallel to it.	<div data-bbox="1200 316 1816 791" data-label="Image"> </div> <div data-bbox="1223 823 1794 1158" data-label="Image"> </div>



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL-14	351003.7 4	4422408.02	At this point there is a gas collection, processing and distribution station owned by SOCAR is located.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-10	350782.9 9	4422147.35	This point is the intersection place of two asphalt roads passing in front of the SOCAR-owned gas collection, processing and distribution station.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-11	350059.1 9	4422068.70	At this point a dirt road is located that crosses the TL route and runs between two valleys.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-12	349856.3 2	4422042.37	At this point a dirt road is located that crosses the TL route and runs through the valleys to SOCAR's gas processing plant.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL-15	349682.0	4422250.95	At this point the SOCAR's gas processing plant is located approximately 230 m to the right of the TL route.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL-1	349540.5 1	4422059.57	At this point, about 40 m from the TL route, there is a gas well fenced by SOCAR's iron grid.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-13	349473.0 4	4422016.97	At this point, there is a dirt road leading to the oil and gas fields is located. There are operating wells on the right side of the road.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
CR-5	349345.8 5	4421999.53	At this point, there is a dirt road leading to the oil and gas fields is located. The surrounding plots of land are not used for planting.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-14	349270.0 5	4421994.03	At this point, there is a dirt road leading to the oil and gas fields is located.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL-16	349536.6 5	4421827.42	At this point, about 200 m from the TL route, there is a oil well fenced by SOCAR's iron grid.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
RD-15	348989.4	4421969.34	At this point, there is a dirt road leading to the fields is located.		
					



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-16	348155.0 0	4421882.43	From this point, along the slope of the valley, a pipeline made of plastic pipe passes, that does not intersect with the TL route.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-17	347929.8 9	4421860.38	From this point a dirt road runs through the steppe, crossing the TL route.	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
CR-6	345182.1 3	4421517.92	This area is a vacant plot of land with a relatively smooth relief, not used for agriculture and with sparse steppe vegetation.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
CR-7	344525.3 9	4421403.38	This area is a vacant plot of land with a relatively smooth relief, not used for agriculture and with sparse steppe vegetation.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
RD-18	344079.4 4	4421348.82	From this point a dirt road runs parallel to the route of the future TL.		
					




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL-17	342843.1 7	4421340.47	At this point a cattle farm is located approximately 250 m to the right of the TL route. No one was on the farm during the inspection.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-19	342879.7 0	4421114.28	At this point a dirt road is located that crosses the TL route.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
TR-8	343044.1 3	4421139.69	There are sparsely grown tamariks bushes under natural conditions at this point. The height of the bushes does not exceed 2.5-3.0 m.	 	


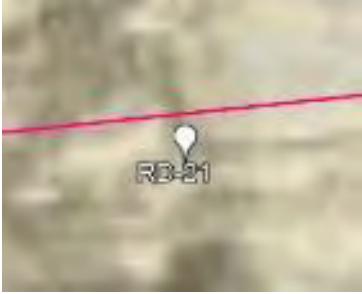

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
FW-3	341390.9 6	4420906.18	At this point a large-diameter surface pipeline runs parallel to the future route of the TL.	 
BL-18	340110.6 9	4420838.39	At this point a cattle farm is located approximately 350 m from the TL route.	


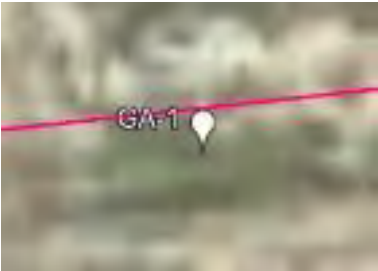

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
RV-6	339743.7 9	4421228.53	At this point, the TL route intersects with a natural depression approximately 5 m wide and 2 m deep. Water has accumulated in the depression as a result of a leak from a nearby pipeline.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RV-7	339664.0 9	4421213.40	This point is located on the right side of the TL route on the slope of a hill with sparse vegetation.	 
RV-8	337975.5 7	4421179.18	At this point, the TL route intersects with a natural ravine. There was no water in the ravine during the observation.	


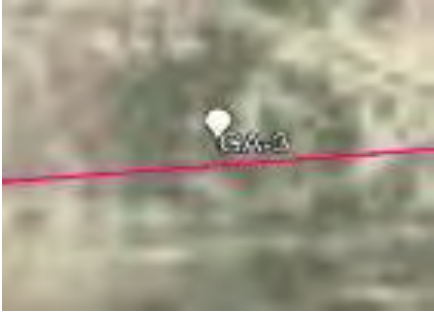

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
RV-9	337317.0 6	4421110.65	At this point, the TL route intersects with a natural ravine. From this point, a surface pipeline runs parallel to the TL route.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
GA-11	336537.3 1	4420853.26	The land at this point consists of natural tamariks bushes.	 
RD-20	335917.0 9	4420968.33	From this point a dirt road runs near the existing pipeline parallel to the TL route.	




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
RD-21	335139.8 9	4420860.62	There is no road, crossing the TL, at this point.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-9	335048.1 3	4420881.46	During the field observations, no greenery was found at this point, except for rare natural steppe plants.	
GA-1	334870.1 8	4420833.38	No greenery was found at this point during field observations.	 



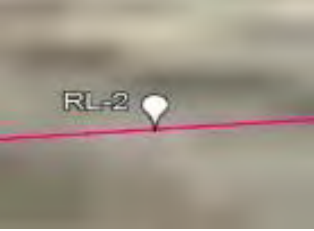
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
GA-2	334650.9 0	4420841.52	No greenery was found at this point during field observations.	 
FW-4	334526.6 7	4420782.90	From this point a surface pipeline runs parallel to the TL route.	




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
GA-3	334366.5 7	4420803.64	No greenery was found at this point, except for rare natural steppe plants.	 

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
BL-19	333329.1 4	4420249.69	The Alat-Shirvan railway crosses the TL route from this point.		 
RV-10	332879.0 7	4420680.59	From this point, a dirt road runs parallel to the TL route.		




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
RV-11	332745.9 4	4420670.56	At this point, the TL route intersects with a pipe crossing laid on the dirt road.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
GA-4	332568.78	4420643.03	At this point, greenery consisting of natural tamariks bushes was observed. The height of the bushes is not more than 2.0-3.0 m.	 
RV-12	332101.51	4420618.26	There is a shallow depression that crosses the TL route at this point.	



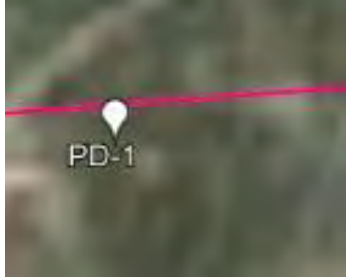
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-3 EP-4	332042.8 3 331985.9 2	4420592.01 4420608.02	There are no electric towers at the points marked as EP-3 and EP-4 on KMZ-3 file.	
RL-2	331958.8 5	4420605.61	The Alyat-Shirvan railway crosses the TL route from this point.	




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-5	331926.7 4	4420622.23	From this point, a low-voltage power line runs parallel to the Alyat-Shirvan railway.	 


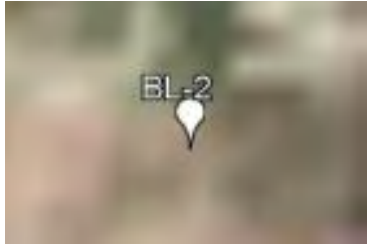

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
FW-5	331530.7 2	4420572.11	From this point, a surface pipeline runs parallel to the Alyat-Shirvan railway.	<div data-bbox="1348 316 1666 564" data-label="Image"> </div> <div data-bbox="1279 600 1738 932" data-label="Image"> </div>
GA-5	331465.1 0	4420550.37	No greenery or shrubs were observed at the point marked GA-5 in the KMZ-3 file.	<div data-bbox="1348 967 1666 1216" data-label="Image"> </div>





Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
					
RD-22	331296.7 5	4420551.86	From this point a trench, excavated parallel to the surface pipeline, passes.		

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
GA-6	331219.6 3	4420528.35	No greenery or shrubs were observed at the point marked GA-6 in the KMZ-3 file.		
RV-13	330937.3 6	4420524.15	No waterways, ditches or canals were found at the point marked as RV-13 in the KMZ-3 file.		
					

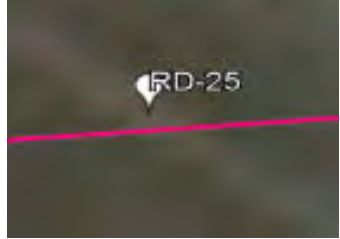



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
GA-7	330381.9 6	4420481.80	At this point, a small area of low tamariks bushes was observed.		
PD-1	330112.2 7	4420449.46	No natural or artificial water basins were found at the point marked as PD-1 in KMZ-3 file.		

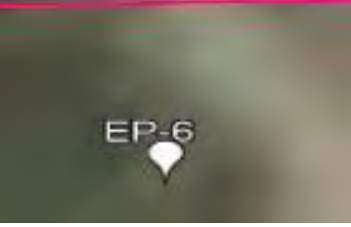


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
RV-14	330066.0 8	4420455.98	There is a relatively smooth plot of land without vegetation at this point.	 


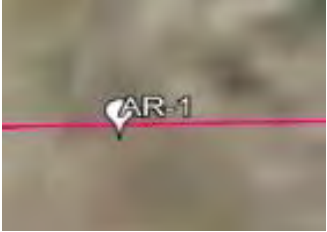


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
Fauna	-	-	On August 31, 2021, during the field studies, a jackal was found near the landfill in the outskirts of the Shirvan city.	
BL-2	330065.8 6	4420424.90	A livestock complex was observed at a distance of about 150 m from this point.	 


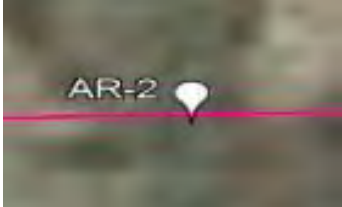
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
PD-2	329947.7 2	4420430.24	No water basin was observed at this point.		
					
PD-3	329397.2 8	4420396.35	No water basin was observed at this point.		
					


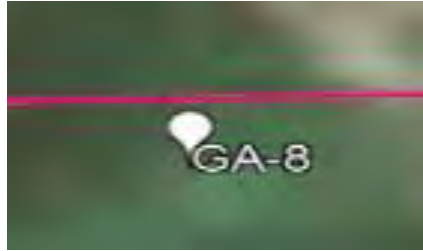

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-23	329146.2 7	4420390.63	At this point, a dirt road crossing the TL was observed.	<div data-bbox="1341 316 1671 536" data-label="Image"> </div> <div data-bbox="1303 564 1709 823" data-label="Image"> </div>
RD-24	328955.4 8	4420370.31	There is a dirt road crossing the TL route at this point.	<div data-bbox="1337 852 1675 1078" data-label="Image"> </div> <div data-bbox="1292 1107 1720 1359" data-label="Image"> </div>

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
RD-25	328878.7 2	4420369.42	At this point, traces of a dirt road intersecting with the TL route are visible.		
					
RD-26	328395.9 1	4420346.12	There is a dirt road crossing the TL route at this point.		
					


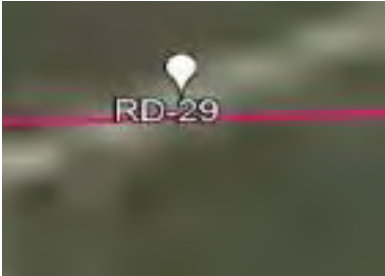
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-6	328196.5 4	4420311.90	From this point, a high-voltage overhead power transmission line runs along the road crossing the TL route.	 
RD-27	328196.7 7	4420345.20	From this point, a high-voltage overhead power transmission line runs along the road crossing the TL route.	


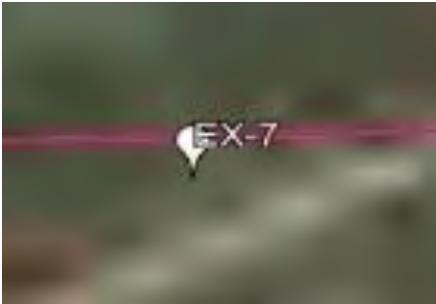
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
AR-1	328051.1 3	4420336.96	From this point a shallow canal runs, which intersects with the TL route.	 
RV-15	327918.0 0	4420341.74		


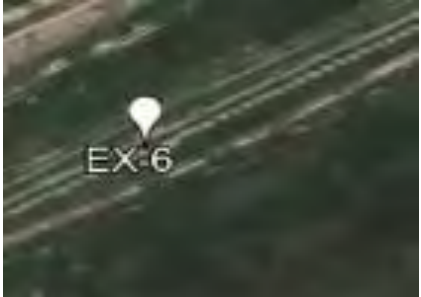

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
			<p>At this point, the TL route intersects with the Shirvan collector. The distance between the two sides of the collector on the ground surface is more than 200 m, the distance between the ground surface and the water level in the collector is about 50 m. This collector is the most serious obstacle that crosses the TL route.</p>	
AR-2	327757.8 6	4420334.72	<p>At this point, traces of a dirt road intersecting with the TL route were observed.</p>	

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
					
GA-8	327687.9 4	4420321.03	The landscape at point GA-8 is the same as the landscape at point AR-2. A tamariks bush can be seen outside the TL route.		
					




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-28	327239.7 9	4420324.62	At this point, the TL route intersects with the dirt road.	<div data-bbox="1288 316 1729 625" data-label="Image"> </div> <div data-bbox="1263 655 1751 979" data-label="Image"> </div>
BL-20	326930.8 1	4419848.48	At this point, a livestock farm is located approximately 500 m from the TL route.	<div data-bbox="1310 1011 1704 1310" data-label="Image"> </div>


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
RD-29	325753.6 3	420316.21	At this point, the TL route intersects with a 2 m deep ditch.	




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EX-7	325716.0 3	4420307.99	The landscape at this point is the same as the landscape at RD-29 point.	

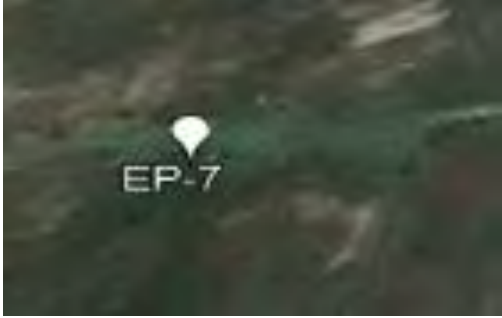


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EX-6	325546.4 3	4420308.75	At this point, there is a vacant plot of land bordered by fill-in soil.	
				




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-30	325452.0 6	4420303.20	From this point, a dirt road extends in the direction of Shirvan city.	 
GF-1	325198.7 1	4420314.44	There is an empty area of low hills at this point.	




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
					
RD-31	324966.9 1	4420302.45	From this point, a dirt road extends in the direction of Shirvan city. On the left side of the road, the towers of high-voltage overhead power lines are visible.		
					


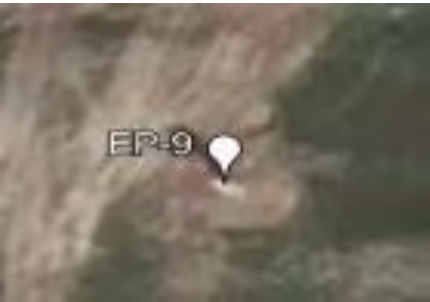

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-10	324889.2 3	4420309.67	This point is an empty area covered with low shrubs.	 
GF-4	324564.8 8	4420011.57	At this point a lowland area, covered with low steppe vegetation, is located.	

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
GF-5	324599.9 8	420239.94	<p>There is a sparsely vegetated depression at this point. The towers of high-voltage overhead power lines can be seen in the area outside the TL route.</p>	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-7	324530.4 6	4420281.38	From this point 4 OHLs parallel to each other pass at a certain distance.	 
EP-2	324523.0 8	4420325.85	At this point, the same landscape is observed as at EP-7 point. From here 4 OHLs parallel to each other pass at a certain distance.	

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-8	324510.9 1	4420270.67	From this point 2 PTL pass. are There are the remains of oil well of the Shirvan Oil operating company on the left side of the PTL.	
				


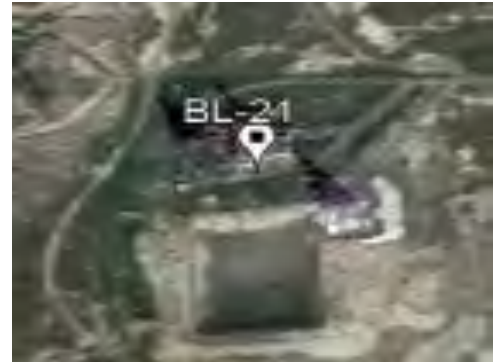

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-11	324461.8 8	4420288.80	At this point vacant plot of land is located, consisting of depression covered with low shrubs. Several PTLs are visible ahead of this point.	<div data-bbox="1308 316 1711 580">  <p>A satellite-style photograph showing a green, vegetated area with a white location pin in the center. The text 'TR-11' is overlaid on the image.</p> </div> <div data-bbox="1290 612 1729 900">  <p>A ground-level photograph of a dry, brownish field with sparse green shrubs. The horizon is flat under a clear sky.</p> </div>
RV-16	324429.7 8	4420294.70	No waterway was observed at this point. The landscape is the same as at TR-11 point.	<div data-bbox="1281 935 1733 1235">  <p>A satellite-style photograph showing a green, vegetated area with a white location pin in the center. The text 'RV-16' is overlaid on the image.</p> </div>




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-9	324367.7 7	4420276.57	<p>Three PTLs parallel each other pass from this point. The relief of the area is relatively smooth and rises towards the Shirvan city.</p>	 



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-11	324346.9 7	4420263.83	From this point 4 PTLs pass along the road, 2 on both sides of the road. Vegetation in the area is very poorly developed.	<div data-bbox="1317 316 1702 574" data-label="Image"> </div> <div data-bbox="1276 606 1742 912" data-label="Image"> </div>
EP-10	324337.7 5	4420307.21	The landscape from this point is the same as from EP-11 point. PTL passes through both sides of the road.	<div data-bbox="1281 949 1733 1241" data-label="Image"> </div>




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
FW-6	324074.0 6	4420292.88	Surface pipeline made of plastic pipe passes from this point.	 



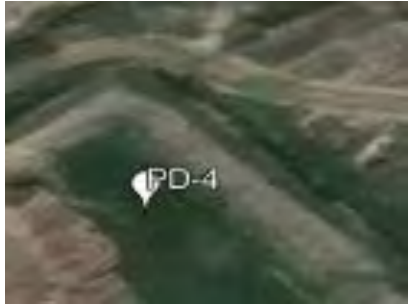
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-12	323973.0 1	4420275.43	At this point, the TL route intersects with the existing dirt road.	<div data-bbox="1317 316 1697 592" data-label="Image"> </div> <div data-bbox="1294 619 1720 906" data-label="Image"> </div>
FW-7	323863.1 7	4420287.96	The landscape at this point is the same as at FW-6 point, plastic pipeline runs through the area in the direction of Shirvan city.	<div data-bbox="1279 935 1738 1254" data-label="Image"> </div>


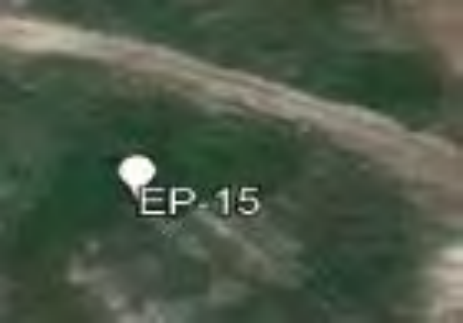

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
					
BL-21	323699.0 2	4420562.13	<p>This point is located about 300 m from the TL route. From this point high-voltage OHL passes, where administrative building and transmission station for mobile communications are located.</p>		

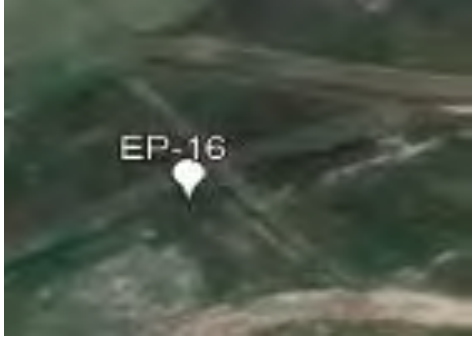


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
EP-12	323713.5 3	4420332.16	From this point high-voltage OHL passes, there is a dirt road along the route of this line.		
					
RD-32	323740.9 3	4420285.37	From this point a dirt road runs in the direction of the Shirvan city, and the terrain rises towards the city. The vegetation of the area is very poorly developed.		




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-13	323464.7 5	4420189.32	From this rising point, high-voltage OHL runs and dirt road passes under it.	

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-14	323263.2 3	4420075.83	At this point, high-voltage OHL passes through the top of the hill. There is a dirt road running along its route.	
				



Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-33	323246.8 0	420046.76	At this point, high-voltage OHL passes through the top of the hill. There is a dirt road running along its route.	 
PD-4	322970.2 2	4419875.78	At this point, the terrain was complex and intersected by numerous hollows. There is a possibility of water accumulation in the hollows during heavy rains.	




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-15	322925.09	4419845.32	At this point, OHLs pass over the high hills separated by a deep valley. The vegetation of the area is very poorly developed.	
				

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
EP-16	322889.2	4419880.46	From this point, which has a relatively smooth relief, dirt road and low-voltage OHL pass.		
					
GA-9	322888.3	4419849.53	To the right and left of this point, dirt road with poorly developed vegetation passes.		




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EX-8	322838.5 3	4419844.84	There are natural depressions at this point on the slope of the hill.	 

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
RD-34	322830.2 1	4419821.08	Dirt road passes from this point. The left side of the road is a deep valley and the right side is a relatively smooth plain. Towers of the high-voltage OHL are visible ahead.	<div data-bbox="1274 316 1740 655" data-label="Image"> </div> <div data-bbox="1290 687 1727 975" data-label="Image"> </div>
GF-2	322733.0 7	4419771.36	Dirt road passes from this point. The left side of the road is a deep valley and the right side is a relatively smooth plain. Towers of the high-voltage OHL can be seen on the hill ahead.	<div data-bbox="1317 1010 1700 1297" data-label="Image"> </div>


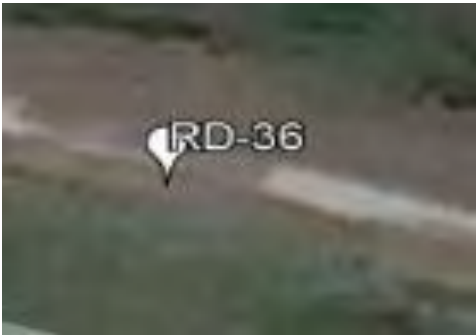
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
GF-3	322558.4 6	4419701.60	At this point, the landscape is similar to point GF-2, with high-voltage OHL towers on the slope of the opposite valley and on the top of the hill.	



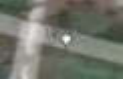
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-17	322550.3 0	419653.27	<p>From this point a dirt road passes, and this road passes through the valley in front and extends towards the hill. There are towers of high-voltage OHL the slope of the valley and on the top of the hill.</p>	
				




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
FW-8	322417.8	4419621.09	From this point, a large-diameter surface pipeline passes through the dirt road and the right side of the road. There are towers of high-voltage OHL on the slope and above the hill in front.	<div data-bbox="1281 316 1733 628" data-label="Image"> </div> <div data-bbox="1296 659 1720 940" data-label="Image"> </div>
RD-35	322396.3	4419601.35	From this point a dirt road extends to the hill in front, and high and low voltage OHLs pass on the right and left sides of the road.	<div data-bbox="1312 970 1704 1219" data-label="Image"> </div>




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
GA-10	322363.0 4	419607.01	At this point an artificially planted garden is located in the area fenced with iron bars. Some trees are more than 5-6 m high.	 

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-13	322371.7 8	4419615.68	At this point the naturally growing tamariks bushes and the PTL passing through them are located. The height of some trees is about 5-6 m.	<div data-bbox="1346 316 1668 545" data-label="Image"> </div> <div data-bbox="1234 580 1783 943" data-label="Image"> </div>
BL-3	322305.9 8	4419599.10	At this point the private yard area is located, PTL passes behind it. The approximate height of the trees in the yard reaches 8-10 m.	<div data-bbox="1290 975 1727 1265" data-label="Image"> </div>




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
RD-36	322329.4 1	4419573.21	<p>From this point, on the right and left sides, dirt road passes with naturally growing tamariks bushes. Currently, an underground pipeline, crossing the dirt road, is under construction here.</p>	

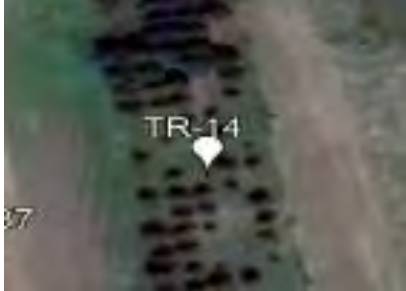


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-18	322343.4 3	4419559.15	The area at this point is covered with naturally growing shrubs. There are trees planted on the side of the road, reaching a height of 7-8 m, on the left side of the area.	
EP-19	322307.0 2	4419565.49	Numerous PTLs pass through this point, which is densely covered with natural vegetation. The height of the bushes doesn't exceed 1.5-2.0 m.	

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-20	322304.5 1	4419545.82	As in the point EP-19, the area at this point has dense natural vegetation reaching up to 5-6 m in some places. Numerous EVXs pass through the area.	 
EP-21	322263.9 1	4419567.89		

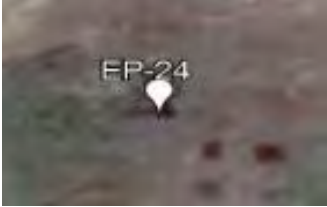


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
			<p>The land at this point is densely covered with naturally growing tamariks and other steppe plants. Sahədən EVX-i keçir. There are artificially planted trees up to 6-8 m in height on the left side of the area.</p>	
GA-12	322338.1 9	4419505.37	<p>This point is covered with naturally growing shrubs and artificially planted trees up to 5-6 m in height. PTL passes through the area.</p>	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-22	322251.2 5	4419542.80	The PTL passes through this area, which is covered with tamariks bushes up to 5-6 m high.	<div data-bbox="1301 316 1711 592" data-label="Image"> </div> <div data-bbox="1301 620 1711 896" data-label="Image"> </div>
BL-4	322257.0 4	4419514.41	The area has sparse natural vegetation and 5-6 m high trees and booth from stone. PTL passes through the area.	<div data-bbox="1337 927 1677 1182" data-label="Image"> </div>

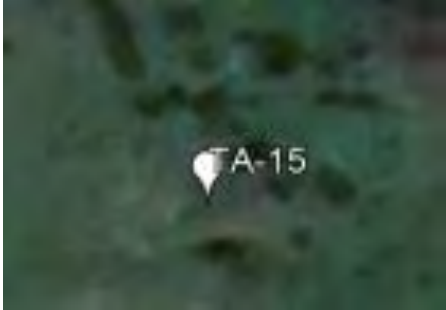


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
					
EP-23	322246.7 3	4419511.84	PTL passes through this depression, covered with natural vegetation.		


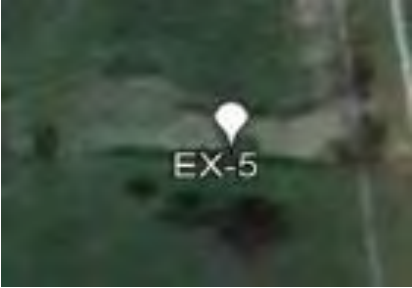

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
TR-14	322165.9 9	4419511.96	At this point, on the right side of the main asphalt road, green zone consisting of 6-8 m high pine trees is located.	 
RD-37	322141.3 2	4419502.33	At this point main asphalt road is located, connecting the Shirvan city with its settlements. The high-voltage PTL crosses this road in several places.	



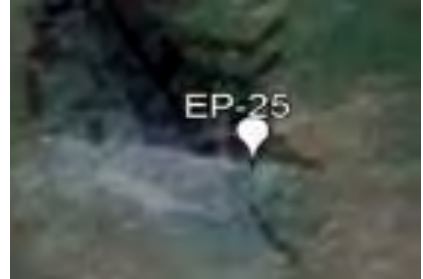
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
BL-5	322097.8 8	4419485.20	From this point a dirt road passes, there are remnants of construction materials in the area, the area is crossed by numerous EVX.	 




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-24	322090.7 4	4419470.31	Numerous high and low voltage PTLs pass through this area covered with sparse vegetation.	 
BL-6	322096.0 6	4419436.94	At this point, the remains of a former car wash are located on a plot of land fenced with metal mesh.	

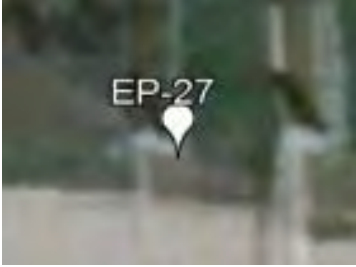


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
					
BL-7	322088.9 5	4419407.31	<p>At this point, there is a one-story building on a vacant plot of land covered with gravel. There are trees more than 10 m high on the left side of the building. Several high-voltage PTLs pass behind the building.</p>		



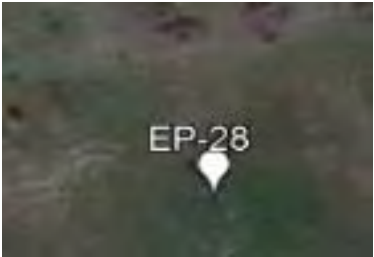
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
TA-15	322055.2	4419394.77	There are naturally growing tamariks bushes up to 6-8 m high at this point. High-voltage PTL passes through the right side of the area.		
					
FW-10	322056.2	419332.08			


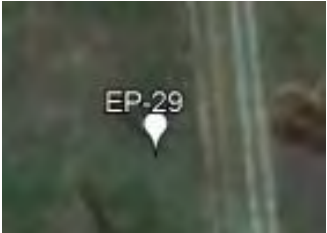


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
			<p>At this point plot of land fenced with a metal mesh and covered with natural vegetation is located. A low-pressure gas pipeline passes through the land. Trees up to 8-10 m high have been planted on the left side of the area.</p>	
EX-5	322006.08	4419327.63	<p>Several surface pipelines pass through this point. There is a pile of soil excavated from a previously dug trench in the area. The area is covered with tamariks and sparse steppe plants.</p>	 

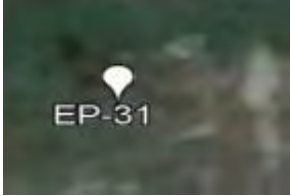

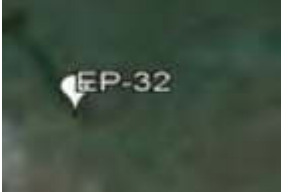

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
FW-9	322023.1 0	4419306.39	Several surface pipelines and concrete trays pass through this point; there are remnants of an abandoned oil well behind the pipeline and high-voltage power lines running to the Janub PP.		
EP-25	321983.2 7	4419305.87	At this point, 3 high-voltage PTLs going to the Janub PP and concrete tray parallel to these lines are passing. The area is covered with low shrubs.		

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
					
EX-4	322030.1 4	4419221.34	Several pipelines, intersecting each other, run from this point. There is a pile of soil left from excavations in the area. The area is covered with sparse natural vegetation.		
					


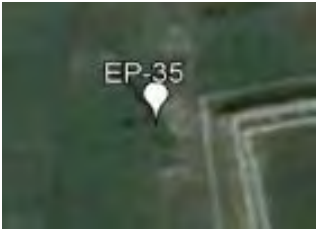

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-27	322041.5 0	4419178.24	There are several pipelines crossing the asphalt road At this point. There is surface pipeline on the right side of the road, and there are trees up to 6-8 m high on both sides.	<div data-bbox="1330 316 1684 584">  </div> <div data-bbox="1312 616 1706 887">  </div>
RD-38	322020.3 0	4419174.22	At this point, asphalt road with numerous power lines over it, and lighting poles on the right side are located. Natural shrubs grow on both sides of the road.	<div data-bbox="1308 919 1706 1222">  </div>





Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-26	322042.9 6	4419166.49	There are no electric or lighting poles at this point.	
EP-28	322007.1 5	4419103.78	Numerous PTLs of different voltage pass through this area covered with low natural vegetation.	

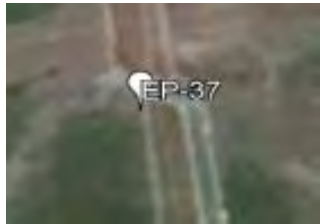

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
EP-29	322048.3 3	4419087.58	Several PTLs and pipelines, crossing them, and concrete trays are located in this area, which is densely covered with low vegetation.	 
EP-30	322047.1 4	4419076.66	The landscape at this point is the same as at point EP-29.	



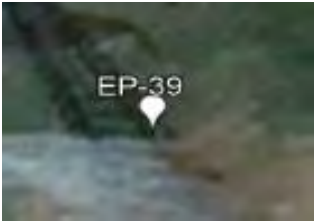

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
EP-31	322025.3 7	4419076.36	Numerous OHLs and surface pipelines intersect at this point, which is densely covered with low natural vegetation.		
					
EP-32	322014.1 0	4419075.38	Numerous OHLs intersect at this point, densely covered with low natural vegetation.		
					




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EP-33	322008.3 7	4419073.76	Numerous OHLs pass parallel to each other from this point, which is densely covered with low natural vegetation.	<div data-bbox="1355 316 1659 539" data-label="Image"> </div> <div data-bbox="1339 571 1675 818" data-label="Image"> </div>
EP-34	322069.2 1	4419035.10		<div data-bbox="1332 850 1682 1114" data-label="Image"> </div>





Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
			<p>From this point surface pipelines, parallel to each other and the PTL, crossing them, pass. There are stone building and trees up to 6-8 m high behind the pipes. The area is densely covered with natural vegetation.</p>	
EP-35	322044.18	4419022.80	<p>From this point, surface pipelines, parallel to each other, and numerous high-voltage PTLs pass. The area is densely covered with low natural vegetation.</p>	 

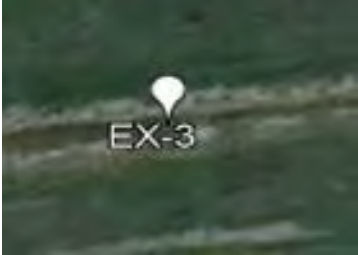


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
PD-5	322059.1 4	4418955.79	At this point, the area consists of a waterless depression densely covered with low natural vegetation.		
					
EP-36	322081.9 7	4418881.29	Numerous PTLs intersect at this point, densely covered with low natural vegetation.		
					


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
EP-37	322084.0 1	4418869.32	Numerous PTLs and surface pipelines run parallel to each other through this area, which is sparsely covered with low natural vegetation.		
					
EP-38	322046.9 3	4418888.53	Numerous PTLs intersect at this point, densely covered with low natural vegetation.		
					

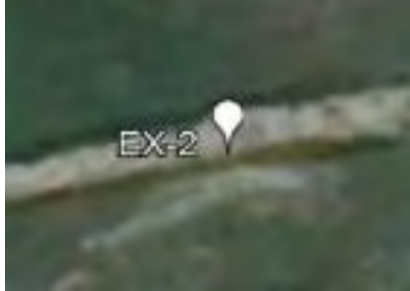


Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
RD-39	322063.2 2	4418870.34	This point consists of dirt road that passes through the area densely covered with low vegetation. High-voltage PTL passes through the left side of the road.		
EP-39	322037.9 0	4418833.66	On the left side of the area at this point surface gas pipeline passes, and in the middle high-voltage OHL going in / out to the Janub PP passes.		




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
FW-11	322075.8 6	4418748.49	From this point surface pipeline runs, crossing the existing high-voltage OHL. The area is densely covered with natural vegetation		
EP-40	322067.2 2	4418658.42	The photo taken at this point shows the Janub PP in the background and the high-voltage air EVXs going in / out there, as well as the overhead pipeline on the left. The area is densely covered with low natural vegetation.		
					



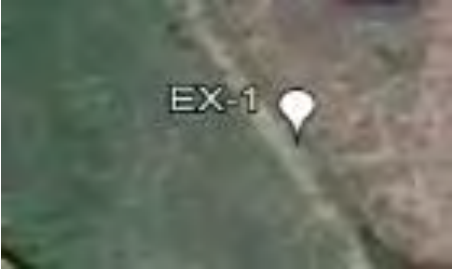
Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
EP-41	322121.2 0	4418590.91	This area, densely covered with low natural vegetation, is a natural depression and OHLs are visible in the background.		
					
EP-42	322071.1 4	4418585.96	From this point high-voltage PTL going to / from the Janub PP passes. The area is covered with low natural vegetation.		
					




Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
EX-3	322101.9 9	418558.72	There is an arch covered with natural vegetation in this area, where many high and low voltage OHLs pass parallel and intersecting.		
					
EP-43	322077.8 4	4418546.69			

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
			<p>Numerous PTLs run parallel to each other in this area, which is densely covered with low natural vegetation. There is a production building on the left side of the area.</p>	
EP-44	322110.6 1	4418527.41	<p>Numerous PTLs run parallel to each other in this area, which is densely covered with low natural vegetation.</p>	<div data-bbox="1339 635 1675 874" data-label="Image"> </div> <div data-bbox="1296 906 1720 1214" data-label="Image"> </div>

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
EX-2	322120.2 1	4418442.10	No boring works were observed at EX-2 point.	
RD-40	322124.4 9	4418423.87	The area at this point consists of two dirt road forks. Dense low natural plants grow around the dirt roads. High-voltage OHL and pipes of industrial enterprise are visible in the background.	 

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
BL-8	322131.7 3	4418375.94	The area at this point consists of empty depression covered with low dense vegetation, and no structures have been observed here.	 
EP-45	322098.6 5	4418367.09	The high voltage PTL located at this point is situated in the immediate vicinity of the Janub PP. There are parallel air PTLs in this area at close distance.	

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
				
BL-9	322132.7 7	4418317.07	No buildings were found at this point.	
EX-1	322100.7 2	4418288.02		

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)
			<p>At this point, trench extends between numerous OHLs, which are parallel to each other. There was no water in the trench at the time of observation. The surrounding area is covered with dense natural vegetation.</p>	
EP-46	322116.9 2	4418258.08	<p>At this point, the last high-voltage OHLs going to / from the Janub PP were observed.</p>	 

Location ID	Coordinates		Description	Number of point in KMZ file (above) / Actual photo of point (below)	
FW-12	322114.2 5	4418244.23	Remains of previous excavations were found in this area adjacent to the fence of the Janub PP building.		