QGIS Application - Bug report #11134 QGIS confuse EPSG:3857 with EPSG:54004

2014-09-03 02:39 PM - Jesus Gomez

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Projection Support		
Affected QGIS version:2.4.0		Regression?:	No
Operating System:	Ubuntu	Easy fix?:	No
Pull Request or Patch supplied:		Resolution:	up/downstream
Crashes QGIS or corru pits data:		Copied to github as #:	19462
Description			
After reprojecting a layer with ogr2ogr to SRS EPSG:3857 , QGIS think it's SRS is EPSG:54004 . To try, you can download this <u>Philadelphia dataset</u> , and run: ogr2ogr -t_srs EPSG:3857 -s_srs EPSG:4326 city_limits_test.shp clipFeature/city_limits.shp			
And add the city_limits_test layer in a clean QGIS project, and you'll see the SRS is EPSG:54004.			

History

#1 - 2014-09-03 03:38 PM - Jürgen Fischer

- Subject changed from QGIS confuse ESPG:3857 with ESPG:54004 to QGIS confuse EPSG:3857 with EPSG:54004

#2 - 2014-10-27 09:32 AM - Jürgen Fischer

- Category changed from Browser to Projection Support

#3 - 2016-05-12 07:03 PM - Etienne Trimaille

This bug is still true in QGIS 2.14.2 and GDAL 1.11.3.

If you work with a layer in 3857, it will be in 54004 after some processing in QGIS. I need to check if it's only with OGR algorithms.

#4 - 2016-05-28 10:59 AM - Even Rouault

- Resolution set to up/downstream
- Status changed from Open to Closed

This has been fixed in GDAL 2.1.0. Extract from the GDAL release news :

- morphToESRI(): use Mercator_Auxiliary_Sphere projection for EPSG:3857. morphFromESRI(): map Mercator_Auxiliary_Sphere to EPSG:3857 (#5924)

It generates this .prj file

\$ cat out.prj

PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere", GEOGCS["GCS_WGS_1984", DATUM["D_WGS_1984", SPHEROID["WGS_1984", 6378137.0 298.257223563]], PRIMEM["Greenwich", 0.0], UNIT["Degree", 0.0174532925199433]], PROJECTION["Mercator_Auxiliary_Sphere"], PARAMETER["False_Easting", Coll, PARAMETER["False_Northing", 0.0], PARAMETER["Central_Meridian", 0.0], PARAMETER["Standard_Parallel_1", 0.0], PARAMETER["Auxiliary_Sphere"], PARAMETER["Auxiliary_Sphere"], PARAMETER["Auxiliary_Sphere"], PARAMETER["False_Easting", Coll, PARAMETER["False_Northing", 0.0], PARAMETER["Central_Meridian", 0.0], PARAMETER["Standard_Parallel_1", 0.0], PARAMETER["Auxiliary_Sphere"], PARAMETER["Auxiliary_Sphere"], PARAMETER["Auxiliary_Sphere"], PARAMETER["Auxiliary_Sphere"], PARAMETER["False_Easting", Coll, PARAMETER["Standard_Parallel_1", 0.0], PARAMETER["Auxiliary_Sphere"], PARAMETER["Auxiliary_Sphere], PARAMETER["Auxiliary_

```
And it is read by OGR as :
PROJCS["WGS 84 / Pseudo-Mercator",
 GEOGCS["WGS 84",
   DATUM["WGS_1984",
     SPHEROID["WGS 84",6378137,298.257223563,
        AUTHORITY["EPSG","7030"]],
     AUTHORITY["EPSG","6326"]],
   PRIMEM["Greenwich",0,
     AUTHORITY["EPSG","8901"]],
   UNIT["degree",0.0174532925199433,
     AUTHORITY["EPSG","9122"]],
   AUTHORITY["EPSG","4326"]],
 PROJECTION["Mercator_1SP"],
 PARAMETER["central_meridian",0],
 PARAMETER["scale_factor",1],
 PARAMETER["false_easting",0],
 PARAMETER["false_northing",0],
 UNIT["metre",1,
   AUTHORITY["EPSG","9001"]],
 AXIS["X",EAST],
 AXIS["Y",NORTH],
 EXTENSION["PROJ4","+proj=merc +a=6378137 +b=6378137 +lat_ts=0.0 +lon_0=0.0 +x_0=0.0 +y_0=0 +k=1.0 +units=m +nadgrids=@null +wktext
+no_defs"],
  AUTHORITY["EPSG","3857"]]
```