**Procedure for Deleting EO and Source Feature records through SQL**

These instructions are for deleting EOs and Source Features saved to working lists in Biotics. Replace 116023 and 116024 with the appropriate working \_list\_id in all the SQL statements.

If you don't have working lists, you'll need a list of the eo\_id's and source\_feature\_id's of the records you plan to delete. Substitute a comma-delimited list for the subquery that begins with "select data\_id ...."

1. Run the following updates. The purpose of these updates is to set SHAPE.rec\_last\_mod\_user to a distinctive value that can be used in the last step of these instructions to delete "orphaned" SHAPE records.

update shape set has\_shape\_ind = 'N', rec\_last\_mod\_user = 'to\_be\_deleted' where shape\_id in

(select eo.shape\_id from eo where eo.eo\_id in

(select data\_id from working\_list\_eo\_data

where working\_list\_id = 116023));

commit;

update shape set has\_shape\_ind = 'N', rec\_last\_mod\_user = 'to\_be\_deleted' where shape\_id in

(select source\_feature.shape\_id from source\_feature

where source\_feature.source\_feature\_id in

(select data\_id from working\_list\_src\_feat\_data

where working\_list\_id = 116024));

commit;

1. Delete rows in all the standard EO and Source Feature child tables. For peace of mind, you could also query these tables first to find out how many rows you expect to be deleted in each one.

delete from EO\_CONTACT where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_COUNTY where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_KEYWORD where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_LOCAL\_JURISDICTION where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_MANAGED\_AREA where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_MAPSHEET where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_OWNER where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_PHYS\_PROVINCE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_REFERENCE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_SITE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_SPECIMEN where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_SURVEYOR where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_SURVEY\_SITE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_SURVEY\_TYPE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_TRS where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_WATERSHED where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_SHAPE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from EO\_SHAPE\_PROJ where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

commit;

delete from COMM\_EO\_ASPECT where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_COMPOSITION where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_HIGHER\_TAXON where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_IMAGE\_REF where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_OTHER\_SPECIES where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_PLOT where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_SLOPE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_SOIL\_TYPE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_STD\_ELEMENT\_REL where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_STRUCTURE where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_TOPO\_POSITION where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

delete from COMM\_EO\_UNVEG\_SURF where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

commit;

delete from COMMUNITY\_EO where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

commit;

delete from VISIT where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_PT where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_PRE\_PT where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_LINE where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_PRE\_LINE where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_POLY where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_PRE\_POLY where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_REP\_PROJ where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

delete from SOURCE\_FEATURE\_UHF where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

commit;

delete from EO\_SOURCE\_FEATURE where EO\_ID in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023));

commit;

1. You will also have to delete rows from any extensible tables linked to EO or Source Feature. Substitute each table name in turn for EXT\_TABLE\_NAME.

---------For EO extensible tables:----------

delete from EXT\_TABLE\_NAME where eo\_id in (select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

commit;

---------For Source Feature extensible tables:----------

delete from EXT\_TABLE\_NAME where source\_feature\_id in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

commit;

1. Next, delete the related records in the SPATIAL\_ATTRIBUTE table. These statements may take several minutes to run.

delete from spatial\_attribute sa where sa.feature\_id in

(select shape\_id from source\_feature where source\_feature\_id in

(select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024));

commit;

delete from spatial\_attribute sa where sa.feature\_id in

(select shape\_id from eo where eo\_id in

(select data\_id from working\_list\_eo\_data where working\_list\_id = 116023));

commit;

1. Query to find out if there are any sub-EOs.

SELECT EOsub.EO\_ID

FROM EO EOsub, EO EOprin

WHERE EOprin.SHAPE\_ID = EOsub.PRINCIPAL\_EO\_SHAPE\_ID

AND EOsub.EO\_ID in

(select data\_id from working\_list\_eo\_data where working\_list\_id = 116023);

If this query returns any results, the link between sub- and principal EOs must be broken before the EOs can be deleted. Run the following update, inserting the EO\_IDs found in the previous query:

update EO

set EO.principal\_eo\_shape\_id = null, rec\_last\_mod\_user = 'delete'

where EO.EO\_ID in (..., ..., etc.);

commit;

1. Now you can finally delete the EOs and Source Features:

delete from EO where EO\_ID in (select data\_id from working\_list\_eo\_data

where working\_list\_id = 116023);

commit;

delete from SOURCE\_FEATURE where SOURCE\_FEATURE\_ID in (select data\_id from working\_list\_src\_feat\_data where working\_list\_id = 116024);

commit;

1. Finally, get rid of the 'orphaned' records in the Oracle SHAPE table. Since there are no longer any related EOs or Source Features in the database, the only way to identify these records is by the update that was done in Step 2.

delete from spatial\_attribute\_status where shape\_id in (select shape\_id from shape where rec\_last\_mod\_user='Ticket\_4916');

commit;

delete from shape where has\_shape\_ind = 'N' and rec\_last\_mod\_user = 'to\_be\_deleted';

commit;