**Data Export Query Documentation**

**NPS Focused Condition Assessment Data Share, September 2018**

The following query exports were performed using the front-end application tools (Data Summarization). This tool contains form elements that the user can change to select and filter records by location (e.g., park, site/location, location type, location status, and park region) or event (e.g., by year or date range, whether to include uncertified data in output, and whether to include sampling events flagged as excluded for quality or incompleteness reasons). The form elements are conveyed to the queries in the form of subqueries – qsub\_Loc\_filters and qsub\_Event\_filters.

For this export, records were filtered as follows:

* Uncertified records were included (given the current, uncertified state of the data)
* All event records were included

Export Query Definitions and SQL Statements

1. qs\_b014\_Sites\_export - Sampling site metadata export

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, tbl\_Sites.Site\_status, tbl\_Sites.Site\_notes, tbl\_Sites.Site\_established, tbl\_Sites.Site\_discontinued

FROM tbl\_Sites

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code;

1. qs\_b024\_Locations\_export - Sampling location metadata export

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Locations.Location\_status, tbl\_Locations.Loc\_established, tbl\_Locations.Loc\_discontinued

FROM tbl\_Sites INNER JOIN tbl\_Locations ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Locations.Location\_code;

1. qs\_b034\_Events\_export - Sampling event metadata export, one event record per site/location-year. Includes descriptive location/site information.

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Start\_time, tbl\_Events.End\_time, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Events.Entered\_date, tbl\_Events.Updated\_date, tbl\_Events.Verified\_date

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN tbl\_Events ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b044\_Event\_observers – Sampling event observers

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Start\_date, tbl\_Observers.Event\_ID, tbl\_Observers.Observer\_role, tbl\_Observers.Contact\_ID, tbl\_Observers.Observer\_notes

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Observers ON tbl\_Events.Event\_ID = tbl\_Observers.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b104\_Amphibian\_Transect\_Events - Sampling events associated with amphibian transect surveys

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Amphibian\_Transect\_Event.Air\_temperature\_c, tbl\_Amphibian\_Transect.Transect\_number, tbl\_Amphibian\_Transect.Water\_temperature\_c, tbl\_Amphibian\_Transect.Start\_time, tbl\_Amphibian\_Transect.End\_time, tbl\_Amphibian\_Transect.Transect\_distance\_m, tbl\_Amphibian\_Transect.UTM\_east, tbl\_Amphibian\_Transect.UTM\_north, tbl\_Amphibian\_Transect.Dominant\_habitat

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN ((tbl\_Events INNER JOIN tbl\_Amphibian\_Transect ON tbl\_Events.Event\_ID = tbl\_Amphibian\_Transect.Event\_ID) LEFT JOIN tbl\_Amphibian\_Transect\_Event ON tbl\_Events.Event\_ID = tbl\_Amphibian\_Transect\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b114\_Amphibian\_Transect\_Obs – Amphibian transect observation records (0-multiple per sampling event)

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Amphibian\_Transect\_Event.Air\_temperature\_c, tbl\_Amphibian\_Transect.Transect\_number, tbl\_Amphibian\_Transect.Water\_temperature\_c, tbl\_Amphibian\_Transect.Start\_time, tbl\_Amphibian\_Transect.End\_time, tbl\_Amphibian\_Transect.Transect\_distance\_m, tbl\_Amphibian\_Transect.UTM\_east, tbl\_Amphibian\_Transect.UTM\_north, tbl\_Amphibian\_Transect.Dominant\_habitat, tbl\_Amphibian\_Transect\_Counts.Species\_code, tbl\_Amphibian\_Transect\_Counts.Life\_stage\_code, tbl\_Amphibian\_Transect\_Counts.Count, tbl\_Amphibian\_Transect\_Counts.Count\_method, tbl\_Amphibian\_Transect\_Counts.Habitat\_code, tbl\_Amphibian\_Transect\_Counts.Specimen\_length\_mm, tbl\_Amphibian\_Transect\_Counts.Comments

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN ((tbl\_Events INNER JOIN (tbl\_Amphibian\_Transect INNER JOIN tbl\_Amphibian\_Transect\_Counts ON tbl\_Amphibian\_Transect.Amphibian\_transect\_ID = tbl\_Amphibian\_Transect\_Counts.Amphibian\_transect\_ID) ON tbl\_Events.Event\_ID = tbl\_Amphibian\_Transect.Event\_ID) LEFT JOIN tbl\_Amphibian\_Transect\_Event ON tbl\_Events.Event\_ID = tbl\_Amphibian\_Transect\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b124\_Amphibian\_VES\_Events - Sampling events associated with amphibian visual estimation surveys

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Amphibian\_VES\_Event.Amphibian\_ves\_event\_ID, tbl\_Amphibian\_VES\_Event.VES\_number, tbl\_Amphibian\_VES\_Event.Start\_time, tbl\_Amphibian\_VES\_Event.End\_time, tbl\_Amphibian\_VES\_Event.Total\_time\_min, tbl\_Amphibian\_VES\_Event.Num\_observers, tbl\_Amphibian\_VES\_Event.Survey\_perimeter\_m, tbl\_Amphibian\_VES\_Event.Num\_sites, tbl\_Amphibian\_VES\_Event.None\_seen\_tf

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Amphibian\_VES\_Event ON tbl\_Events.Event\_ID = tbl\_Amphibian\_VES\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b134\_Amphibian\_VES\_Habitat – Habitat observations associated with amphibian transect surveys (0-multiple per sampling event)

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Amphibian\_VES\_Event.Amphibian\_ves\_event\_ID, tbl\_Amphibian\_VES\_Event.VES\_number, tbl\_Amphibian\_Habitat.Site\_num, tbl\_Amphibian\_Habitat.Substrate\_type\_1, tbl\_Amphibian\_Habitat.Substrate\_type\_2, tbl\_Amphibian\_Habitat.Substrate\_type\_3, tbl\_Amphibian\_Habitat.Substrate\_type\_4, tbl\_Amphibian\_Habitat.Percent\_CWD, tbl\_Amphibian\_Habitat.CPOM\_present\_yn, tbl\_Amphibian\_Habitat.Veg\_emerg\_yn, tbl\_Amphibian\_Habitat.Veg\_float\_yn, tbl\_Amphibian\_Habitat.Veg\_submerg\_yn

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN (tbl\_Amphibian\_VES\_Event INNER JOIN tbl\_Amphibian\_Habitat ON tbl\_Amphibian\_VES\_Event.Amphibian\_ves\_event\_ID = tbl\_Amphibian\_Habitat.Amphibian\_ves\_event\_ID) ON tbl\_Events.Event\_ID = tbl\_Amphibian\_VES\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date, tbl\_Amphibian\_VES\_Event.VES\_number, tbl\_Amphibian\_Habitat.Site\_num;

1. qs\_b144\_Amphibian\_VES\_Counts – Amphibian visual estimation survey count data, by site, species, life stage and method (0-multiple per sample event)

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Amphibian\_VES\_Event.Amphibian\_ves\_event\_ID, tbl\_Amphibian\_VES\_Event.VES\_number, tbl\_Amphibian\_VES\_Counts.Site\_num, tbl\_Amphibian\_VES\_Counts.Species\_code, tbl\_Amphibian\_VES\_Counts.Life\_stage\_code, tbl\_Amphibian\_VES\_Counts.Sample\_method, tbl\_Amphibian\_VES\_Counts.Count\_method, tbl\_Amphibian\_VES\_Counts.Count, tbl\_Amphibian\_VES\_Counts.Comments

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN (tbl\_Amphibian\_VES\_Event INNER JOIN tbl\_Amphibian\_VES\_Counts ON tbl\_Amphibian\_VES\_Event.Amphibian\_ves\_event\_ID = tbl\_Amphibian\_VES\_Counts.Amphibian\_ves\_event\_ID) ON tbl\_Events.Event\_ID = tbl\_Amphibian\_VES\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date, tbl\_Amphibian\_VES\_Event.VES\_number, tbl\_Amphibian\_VES\_Counts.Site\_num;

1. qs\_b154\_Amphibian\_VES\_Specimens – Amphibian visual estimation survey specimens (0-multiple per sample event)

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Amphibian\_VES\_Event.Amphibian\_ves\_event\_ID, tbl\_Amphibian\_VES\_Event.VES\_number, tbl\_Amphibian\_Specimens.Amphibian\_ves\_specimen\_ID, tbl\_Amphibian\_Specimens.Species\_code, tbl\_Amphibian\_Specimens.Life\_stage\_code, tbl\_Amphibian\_Specimens.Total\_length\_mm, tbl\_Amphibian\_Specimens.[Snout-vent\_length\_mm], tbl\_Amphibian\_Specimens.Comments

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN (tbl\_Amphibian\_VES\_Event INNER JOIN tbl\_Amphibian\_Specimens ON tbl\_Amphibian\_VES\_Event.Amphibian\_ves\_event\_ID = tbl\_Amphibian\_Specimens.Amphibian\_ves\_event\_ID) ON tbl\_Events.Event\_ID = tbl\_Amphibian\_VES\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date, tbl\_Amphibian\_VES\_Event.VES\_number;

1. qs\_b204\_Fish\_Angling\_Event\_Counts – Fish angling event information and associated count data by species and life stage

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Angling\_Event.Total\_time\_fished\_hr, tbl\_Angling\_Event.None\_caught\_tf, tbl\_Angling\_Counts.Fish\_taxon\_code, tbl\_Angling\_Counts.Fish\_life\_stage, tbl\_Angling\_Counts.Count

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN (tbl\_Angling\_Event LEFT JOIN tbl\_Angling\_Counts ON tbl\_Angling\_Event.Angling\_event\_ID = tbl\_Angling\_Counts.Angling\_event\_ID) ON tbl\_Events.Event\_ID = tbl\_Angling\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b214\_Fish\_VES\_Event\_Counts – Fish visual estimation count event information and total counts by species, life stage, and method

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Fish\_VES\_Event.Fish\_ves\_event\_ID, tbl\_Fish\_VES\_Event.Total\_time\_hr, tbl\_Fish\_VES\_Event.None\_seen\_tf, tbl\_Fish\_VES\_Counts.Fish\_ves\_count\_ID, tbl\_Fish\_VES\_Counts.Fish\_taxon\_code, tbl\_Fish\_VES\_Counts.Fish\_life\_stage, tbl\_Fish\_VES\_Counts.Sample\_method, tbl\_Fish\_VES\_Counts.Count\_method, tbl\_Fish\_VES\_Counts.Count\_n, tbl\_Fish\_VES\_Counts.Comments

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN ((tbl\_Events INNER JOIN tbl\_Fish\_VES\_Event ON tbl\_Events.Event\_ID = tbl\_Fish\_VES\_Event.Event\_ID) LEFT JOIN tbl\_Fish\_VES\_Counts ON tbl\_Fish\_VES\_Event.Fish\_ves\_event\_ID = tbl\_Fish\_VES\_Counts.Fish\_ves\_event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b224\_Fish\_VES\_Event\_Obs – Fish visual estimation observatiops by species, life stage

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Fish\_VES\_Event.Fish\_ves\_event\_ID, tbl\_Fish\_VES\_Event.Total\_time\_hr, tbl\_Fish\_VES\_Event.None\_seen\_tf, tbl\_Fish\_VES\_Observations.Fish\_taxon\_code, tbl\_Fish\_VES\_Observations.Fish\_life\_stage, tbl\_Fish\_VES\_Observations.Contact\_ID, tbl\_Fish\_VES\_Observations.Comments

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN ((tbl\_Events INNER JOIN tbl\_Fish\_VES\_Event ON tbl\_Events.Event\_ID = tbl\_Fish\_VES\_Event.Event\_ID) LEFT JOIN tbl\_Fish\_VES\_Observations ON tbl\_Fish\_VES\_Event.Fish\_ves\_event\_ID = tbl\_Fish\_VES\_Observations.Fish\_ves\_event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b234\_Fish\_Gill\_Net\_Event\_Counts – Fish gill net count event information and total counts by species

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([tbl\_Events].[Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Gill\_Net\_Event.Gill\_net\_event\_ID, tbl\_Gill\_Net\_Event.Gill\_net\_number, tbl\_Gill\_Net\_Event.Start\_date, tbl\_Gill\_Net\_Event.Start\_time, tbl\_Gill\_Net\_Event.End\_date, tbl\_Gill\_Net\_Event.End\_time, tbl\_Gill\_Net\_Event.Total\_time\_min, tbl\_Gill\_Net\_Counts.Fish\_taxon\_code, tbl\_Gill\_Net\_Counts.Count\_n

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN ((tbl\_Events INNER JOIN tbl\_Gill\_Net\_Event ON tbl\_Events.Event\_ID = tbl\_Gill\_Net\_Event.Event\_ID) LEFT JOIN tbl\_Gill\_Net\_Counts ON tbl\_Gill\_Net\_Event.Gill\_net\_event\_ID = tbl\_Gill\_Net\_Counts.Gill\_net\_event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([tbl\_Events].[Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b244\_Fish\_Gill\_Net\_Event\_Specimens – Fish gill net specimens

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([tbl\_Events].[Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Gill\_Net\_Event.Gill\_net\_event\_ID, tbl\_Gill\_Net\_Event.Gill\_net\_number, tbl\_Gill\_Net\_Event.Start\_date, tbl\_Gill\_Net\_Event.Start\_time, tbl\_Gill\_Net\_Event.End\_date, tbl\_Gill\_Net\_Event.End\_time, tbl\_Gill\_Net\_Event.Total\_time\_min, tbl\_Gill\_Net\_Specimens.Fish\_taxon\_code, tbl\_Gill\_Net\_Specimens.Total\_length\_mm, tbl\_Gill\_Net\_Specimens.Fork\_length\_mm, tbl\_Gill\_Net\_Specimens.Weight\_g

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN ((tbl\_Events INNER JOIN tbl\_Gill\_Net\_Event ON tbl\_Events.Event\_ID = tbl\_Gill\_Net\_Event.Event\_ID) INNER JOIN tbl\_Gill\_Net\_Specimens ON tbl\_Gill\_Net\_Event.Gill\_net\_event\_ID = tbl\_Gill\_Net\_Specimens.Gill\_net\_event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([tbl\_Events].[Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b304\_Lake\_Level\_Events – Lake level event observations

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Lake\_Level.Mean\_level\_cm, tbl\_Lake\_Level.Comments

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Lake\_Level ON tbl\_Events.Event\_ID = tbl\_Lake\_Level.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b314\_Water\_Clarity\_Events – Water clarity event observations

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Water\_Clarity\_Event.Cloud\_cover, tbl\_Water\_Clarity\_Event.Glare, tbl\_Water\_Clarity\_Event.Lake\_surface, tbl\_Water\_Clarity\_Event.Sample\_site\_depth\_m, tbl\_Water\_Clarity\_Event.Time\_of\_measurement, tbl\_Water\_Clarity\_Event.Bottom\_visible\_yn, tbl\_Water\_Clarity\_Event.Sonar\_used\_yn, tbl\_Water\_Clarity\_Event.Secchi\_value\_m, tbl\_Water\_Clarity\_Event.Secchi\_value\_greaterthan\_tf, tbl\_Water\_Clarity\_Event.Secchi\_value\_replicate\_m

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Water\_Clarity\_Event ON tbl\_Events.Event\_ID = tbl\_Water\_Clarity\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b324\_Water\_Clarity\_Secchi\_Replicates – Secchi replicates associated with water clarity event observations

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, tbl\_Events.Event\_ID, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Water\_Clarity\_Event.Cloud\_cover, tbl\_Water\_Clarity\_Event.Glare, tbl\_Water\_Clarity\_Event.Lake\_surface, tbl\_Water\_Clarity\_Event.Sample\_site\_depth\_m, tbl\_Water\_Clarity\_Event.Time\_of\_measurement, tbl\_Water\_Clarity\_Event.Bottom\_visible\_yn, tbl\_Water\_Clarity\_Event.Sonar\_used\_yn, tbl\_Water\_Clarity\_Event.Secchi\_value\_m, tbl\_Water\_Clarity\_Event.Secchi\_value\_greaterthan\_tf, tbl\_Water\_Clarity\_Event.Secchi\_value\_replicate\_m, tbl\_Secchi\_Depth.Secchi\_test\_num, tbl\_Secchi\_Depth.Replicate\_tf, tbl\_Secchi\_Depth.Descend\_depth\_m, tbl\_Secchi\_Depth.Ascend\_depth\_m, tbl\_Secchi\_Depth.Average\_depth\_m

FROM (tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Water\_Clarity\_Event ON tbl\_Events.Event\_ID = tbl\_Water\_Clarity\_Event.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID) INNER JOIN tbl\_Secchi\_Depth ON tbl\_Water\_Clarity\_Event.Water\_clarity\_event\_ID = tbl\_Secchi\_Depth.Water\_clarity\_event\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Locations.Location\_code, tbl\_Events.Start\_date;

1. qs\_b334\_Water\_Chemistry\_Samples\_select – Water chemistry sampling event information (0-many per sampling event). Limited to mid-depth samples except for dissolved organic carbon, and surface samples for dissolved organic carbon.

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, Year([Start\_date]) AS Event\_year, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Events.Event\_ID, tbl\_Water\_Sample.Water\_sample\_ID, tbl\_Water\_Sample.Water\_sample\_depth, tbl\_Water\_Sample.Water\_sample\_type, tbl\_Water\_Sample.Replicate\_tf, tbl\_Water\_Sample.Field\_blank\_tf, tbl\_Water\_Sample.Water\_sample\_depth\_value, tbl\_Water\_Sample.Lab, tbl\_Water\_Sample.Water\_sample\_lab\_ID

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Water\_Sample ON tbl\_Events.Event\_ID = tbl\_Water\_Sample.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

WHERE (((tbl\_Water\_Sample.Water\_sample\_depth)="Mid-Depth") AND ((tbl\_Water\_Sample.Water\_sample\_type)<>"Dissolved Organic Carbon")) OR (((tbl\_Water\_Sample.Water\_sample\_depth)="Surface") AND ((tbl\_Water\_Sample.Water\_sample\_type)="Dissolved Organic Carbon"))

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Locations.Location\_code, Year([Start\_date]) DESC , tbl\_Events.Start\_date, tbl\_Water\_Sample.Water\_sample\_depth, tbl\_Water\_Sample.Water\_sample\_type;

1. qs\_b344\_Water\_Chemistry\_Data\_select – Water chemistry data from lab analysis (0-many per sampling event). Limited to mid-depth samples except for dissolved organic carbon, and surface samples for dissolved organic carbon.

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Events.Event\_ID, tbl\_Water\_Sample.Water\_sample\_ID, tbl\_Water\_Sample.Water\_sample\_depth, tbl\_Water\_Sample.Water\_sample\_type, tbl\_Water\_Sample.Replicate\_tf, tbl\_Water\_Sample.Field\_blank\_tf, tbl\_Water\_Sample.Water\_sample\_depth\_value, tbx\_Lab\_Parameters.Parameter AS Analyte, tbl\_Water\_Sample\_Chemistry.Parameter\_value AS [Value], tbl\_Water\_Sample\_Chemistry.Parameter\_units AS Units, tbl\_Water\_Sample.Lab, tbl\_Water\_Sample\_Chemistry.Lab\_replicate\_tf, tbl\_Water\_Sample\_Chemistry.Processing\_flag, tbl\_Water\_Sample\_Chemistry.Quality\_flag, tbl\_Water\_Sample\_Chemistry.Comment, tbl\_Water\_Sample\_Chemistry.DPL\_code, tbl\_Water\_Sample\_Chemistry.DPL\_date, tbl\_Water\_Sample\_Chemistry.DPL\_user

FROM tbx\_Lab\_Parameters INNER JOIN ((tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Water\_Sample ON tbl\_Events.Event\_ID = tbl\_Water\_Sample.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID) INNER JOIN tbl\_Water\_Sample\_Chemistry ON tbl\_Water\_Sample.Water\_sample\_ID = tbl\_Water\_Sample\_Chemistry.Water\_sample\_ID) ON tbx\_Lab\_Parameters.Lab\_parameter\_ID = tbl\_Water\_Sample\_Chemistry.Lab\_parameter\_ID

WHERE (((tbl\_Water\_Sample.Water\_sample\_depth)="Mid-Depth") AND ((tbl\_Water\_Sample.Water\_sample\_type)<>"Dissolved Organic Carbon")) OR (((tbl\_Water\_Sample.Water\_sample\_depth)="Surface") AND ((tbl\_Water\_Sample.Water\_sample\_type)="Dissolved Organic Carbon"))

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Events.Start\_date, tbl\_Water\_Sample.Water\_sample\_type, tbx\_Lab\_Parameters.Parameter;

1. qs\_b354\_Water\_Column\_Profile\_Events – Water column profile event information

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, Year([Start\_date]) AS Event\_year, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Events.Event\_ID

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Water\_Column\_Profile ON tbl\_Events.Event\_ID = tbl\_Water\_Column\_Profile.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

GROUP BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, tbl\_Locations.Location\_code, tbl\_Locations.Location\_type, Year([Start\_date]), tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.QA\_notes, tbl\_Events.Event\_notes, tbl\_Events.Event\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Locations.Location\_code, Year([Start\_date]) DESC , tbl\_Events.Start\_date;

1. qs\_b364\_Water\_Column\_Profile\_Data – Water column profile data by depth bin category, parameter, replicate and log time (0-many per sampling event). Typically only the last seven values per depth bin were retained.

SELECT tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, tbl\_Sites.Site\_name, Year([Start\_date]) AS Event\_year, tbl\_Events.Start\_date, tbl\_Events.Is\_excluded, tbl\_Events.Event\_ID, tbl\_Water\_Column\_Profile.Depth\_bin\_m, tbl\_Water\_Column\_Profile.Logtime AS [Timestamp], tbl\_Water\_Column\_Profile.Parameter, tbl\_Water\_Column\_Profile.Replicate\_tf, tbl\_Water\_Column\_Profile.Parameter\_value, tbl\_Water\_Column\_Profile.Processing\_flag, tbl\_Water\_Column\_Profile.Quality\_flag, tbl\_Water\_Column\_Profile.DPL\_code, tbl\_Water\_Column\_Profile.DPL\_date, tbl\_Water\_Column\_Profile.DPL\_user

FROM tbl\_Sites INNER JOIN (tbl\_Locations INNER JOIN (tbl\_Events INNER JOIN tbl\_Water\_Column\_Profile ON tbl\_Events.Event\_ID = tbl\_Water\_Column\_Profile.Event\_ID) ON tbl\_Locations.Location\_ID = tbl\_Events.Location\_ID) ON tbl\_Sites.Site\_ID = tbl\_Locations.Site\_ID

ORDER BY tbl\_Sites.Park\_code, tbl\_Sites.Site\_code, Year([Start\_date]) DESC , tbl\_Water\_Column\_Profile.Depth\_bin\_m, tbl\_Water\_Column\_Profile.Logtime, tbl\_Water\_Column\_Profile.Parameter;