ANNUAL MONITORING OF COMPENSATION MEASURES 2021

YEAR 4 OF 5

REPORT PREPARED FOR:

New Gold Inc.
Rainy River Mine
P.O. Box 5
Emo, Ontario
P0W 1E0

REPORT PREPARED BY:

Ecometrix Incorporated
www.ecometrix.ca
Mississauga, ON

Ref. 20-2713
31 December 2021

ANNUAL MONITORING OF COMPENSATION MEASURES 2021

YEAR 4 OF 5

<original signed by>

Caroline Farkas
Technical Lead, Author

<original signed by>

Joe Tetreault
Project Manager and Contributing Author

<original signed by>

Jason Dietrich
Project Principal and Reviewer

EXECUTIVE SUMMARY

The Rainy River Mine (RRM) is owned by New Gold Inc. (New Gold). The mine is located approximately 65 km northwest of Fort Frances and 420 km northwest of Thunder Bay, Ontario. It is located off of Highway 600 within the Township of Chapple and the District of Rainy River. The RRM is located within the Pinewood River watershed which flows past the mine, eventually draining into the Rainy River approximately 40 km downstream. At present, operations at RRM are comprised of open pit and underground mining with ore processed at the Rainy River Mill, located on site.

Development of the mine required the deposit of mine waste (e.g., tailings or overburden) into waterbodies frequented by fish. Consequently, to move forward with these activities an amendment to Schedule 2 of the Metal and Diamond Mining Effluent Regulations (MDMER), formerly the Metal Mining Effluent Regulation (MMER), was required. For this amendment to be completed the RRM had to develop and submit an approved Fish Habitat Compensation Plan (FHCP) that outlined the offset plan to ensure no net loss of fish habitat in keeping with the Department of Fisheries and Oceans (DFO) policy. The original No Net Loss Plan (NNLP) that formed the basis of the agreement was prepared in 2014 as part of the Environmental Assessment. The FHCP that included an outline of the compensation as well as the monitoring was originally submitted in 2015 with an updated version, based on changes to the mine design, submitted in 2017. This FHCP then became the contractual commitment of RRM to construct and monitor the compensation features.

Ecometrix was retained by New Gold to conduct the 2021 FHCP outlined monitoring of the compensation works. The monitoring is comprised of fish community and fish habitat compensation monitoring as well as a yearly report to be provided to the DFO. The data provided herein represents the fourth year of the post-construction monitoring of compensation habitats consisting of three stream features (Stockpile Diversion channel, West Creek Diversion channel and Clark Creek Diversion channel) and three pond features (Stockpile Pond, West Creek Pond and Clark Creek Pond).

Fish species diversity ranged from five to eleven among the watercourses, with Stockpile and West Creek Ponds along with the West Creek diversion channel achieving the species diversity success criterion (i.e., species diversity of nine or more). Clark Creek Pond, Clark Creek diversion channel and the Stockpile Pond diversion channel did not achieve the target number of species. The presence of multiple age classes including young of the year (YOY) found within every watercourse, indicated adequate spawning and rearing habitat for the species present. Fish abundance was high in all watercourses. Of note, Stockpile Pond Diversion channel had low water levels during the summer fish survey and consequently Stockpile Pond was isolated from the rest of the downstream compensation features. The RRM site experienced low amounts of precipitation in May through July with levels being less than the 20-year climate norm. This resulted in extended sections of the West Creek Diversion being completely dry during the summer survey with no water present from the outlet of the West Creek Pond to the haul Road. However, catches in the section of water that remained indicated that the deeper sections were

adequate to provide refuge in low water conditions for an abundance of fish of a variety of species.

The 2021 RRM Compensation Annual Performance surveys conducted in May and July 2021 resulted in Stockpile Pond achieving success for all but one (minnow trap CPUE) prescribed abundance criteria with the other compensation features underperforming to varying degrees. The lack of design target flows in both the Stockpile and West Creek Diversions may be improved by implementing contingency measures at Stockpile Pond. The specifics of these contingencies are being assessed through correspondence with DFO with the intention for implementation in 2022. The objective of contingency measures is to establish a maintenance design water-level that will promote connectivity throughout the Stockpile/West Creek system.

Backpack electrofishing in stream features is an effective method to assess the fish community in this habitat type. Conversely, minnow trap efforts may not be the most appropriate method to monitor in these features due to habitat but also trap avoidance by the species present. Similar to all studies since 2018, the 2021 fish species diversity criterion was only achieved in the West Creek Diversion Channel and not the Stockpile Pond or Clark Creek Diversion Channels. The low diversity in Clark Creek Diversion is likely natural in that baseline data indicate that the original fish species assemblage in this area of the project site was very unevenly distributed with 80% of fish species captured comprised of only four species.

Overall, West Creek Pond and the diversion channel contain a large and diverse fish assemblage as does Stockpile Pond. Clark Creek Pond and diversion contain a less diverse assemblage but this may be more indicative of natural variability in community structures rather than a deficiency in available built-habitat and/or feature design failure. The 2022 monitoring will provide an additional year of data to help understand if the potential implications of low water levels on performance criteria.

The results of the first four years of the monitoring indicate that Stockpile Pond has met biological success criteria. However, the pond is not meeting the design criteria for wetted area. An investigation by BGC Engineering (BGC), who is the engineer of record for the Stockpile Pond dams, indicates that the decreasing water levels in the pond are the result of a slightly smaller watershed than originally assumed during design but more importantly that the water is infiltrating the bottom of the pond and seeping out through the Stockpile Pond dam and the outlet apron at Stockpile Pond diversion channel. At present there are ongoing design discussions between BGC, New Gold and DFO related to implementing a contingency design change to retain water in Stockpile Pond to the levels originally intended. If successful this should maintain the pond closer to design level but also improve connectivity (water levels and flows) in downstream features all the way to Loslo Creek.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

1.0 Introduction

1.1 Site Description

The RRM is owned by New Gold. The mine is located approximately 65 km northwest of Fort Frances and 420 km northwest of Thunder Bay, Ontario (Figure 1-1). It is located off of Highway 600 within the Township of Chapple and the District of Rainy River. The RRM is located within the Pinewood River watershed which flows past the mine, eventually draining into the Rainy River approximately 40 km downstream.

Exploration of the RRM area began in 1967. Table 1-1 provides a history of site development. Commissioning occurred in 2017. Key mine-related infrastructure on the site includes an open pit, underground mine portal, waste rock stockpiles, rock crushing facilities, ore storage facilities, a processing plant, a Tailings Management Area (TMA), watercourse diversions, site drainage works, a fuel tank farm, explosives manufacturing facilities and explosives storage facilities (Figure 1-1).

Table 1-1: Summary of Exploration, development and ownership changes for the Rainy River Mine

Year	Activity
1967	First record of exploration
2005	Property purchased by Rainy River Resources Ltd.
2008	Rainy River Resources Ltd. commences baseline data collection
2013	New Gold Inc. purchases RRM
2014	Environmental Assessment submitted (AMEC 2014)
2015	Site construction begins
2017	Mine commissioned September 2017

1.2 Objectives

The two main objectives of the compensation program are:

- Monitor the compensation features with respect to fish community and fish habitat; and,
- Report on the monitoring as it relates to the success criteria outlined in the FHCP.

The scope of the monitoring for both the form and function of the habitat and the fish community endpoints were outlined in the revised FHCP (AMEC 2017). Accordingly, this report summarizes the results of the 2021 RRM Compensation Measures Monitoring Program surveys conducted in May (high-flow) and July (low-flow) at Stockpile Pond and Stockpile Diversion, West Creek Pond and West Creek Diversion and Clark Creek Pond and Clark Creek Diversion and determines if DFO success criteria were achieved (Table 1-1).

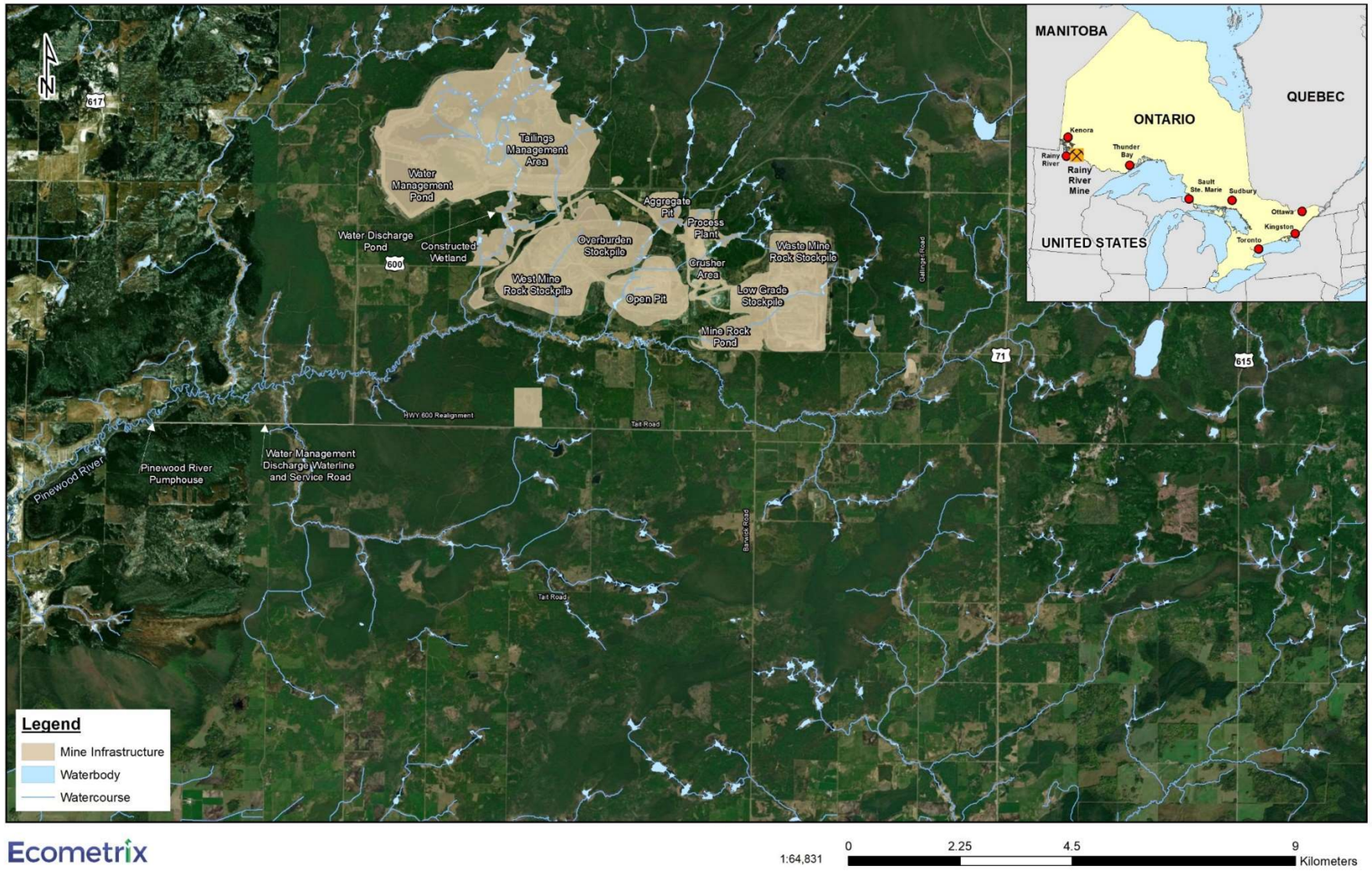


Figure 1-1: Location and Layout, Rainy River Mine

Table 1-1: Compensation Plan Monitoring Requirements and Success Criteria

Attribute	Monitoring Requirement	Success Criteria	Report Schedule
Physical Function of compensation Measures	Water level gauges with an automated water level logger will be used to monitor water levels in the constructed ponds for 5 years following construction.	Water levels are consistent with those specified in the design and the diversion channels and ponds allow for passage of fish.	Annual Monitoring Reports due to DFO on or before December 31 (2018, 2019, 2020, 2021 and 2022).
	Water depth measurements of the pond area will be conducted once per year during the monitoring period (5 years) to confirm refuge areas are maintained[a].		
	Water level data from ponds will be used to evaluate frequency and duration of flows in the discharge channel. Water depth and velocity measurements in the discharge channel will be taken in pools, flats, and riffles during at least one low flow period and high flow period each year (for 5 years). This data will be used to assess the channel conditions for fish passage (spring freshet recommended for high flow measurement).		
	Fish presence within the diversion channels will be monitored once per summer during the monitoring period (5 years) to assess fish access to the diversion channels.		
Stability of Habitat Structures	Observations will be made once per year during the monitoring period, during low flow for best visibility to confirm that constructed features are in place and functional.	Constructed habitat features remain in place, shorelines and graded features are stable and not eroding (greater than 80% of features are considered stable).	
	Stability of the features and general condition will be assessed by mapping and photo documenting the perimeter of the ponds and the diversion channels once per year. Consistent vantage points will be used to provide between year comparisons.		
	Riparian vegetation cover and planting success will be monitored annually by estimating the percent cover of herbaceous ground cover and the percent survival of planted stock (shrubs).	Riparian vegetation cover and plantings achieve 80% coverage of area, and or survival of planted stock.	
Fish Species Presence, Life Cycle Usage, and Abundance	Fish sampling will be conducted annually during the summer for 5 years.	Minimum of 9 species of fish present in each of the 2 Diversion areas (Clark Creek Diversion and West Creek Diversion).	
	Minimum fishing effort per pond: minnow traps (1,500 trap hours), seine nets (10 individual [15 m] net hauls), and electrofishing (10,000 seconds). Additional effort and methods may be used to confirm larger bodied species and species presence.	Multiple year classes including young of the year fish are present in each of the compensation features (Clark Creek Diversion and West Creek Diversion).	
	Minimum fishing effort per diversion channel: minnow traps (250 trap hours), electrofishing (1,000 seconds). Additional effort and methods may be used to confirm larger bodied species, species presence, and species movement throughout the channel.	Overall Catch-per-Unit-Effort (CPUE) for all species combined, for at least two of the following capture methods (electrofishing, minnow traps, and seine nets); Minnow Trap CPUE ≥ 2 fish per trap hour; Seine Net CPUE ≥ 16 fish per 15 m net pull; Electrofishing CPUE ≥ 44 fish per 1,000 seconds	

[a] Data collected by RRM and provided to Ecometrix for annual reports.

2.0 Methods

2.1 Compensation Plan Annual Monitoring Overview

The RRM Compensation Measures Monitoring Program was completed over two surveys conducted from May 24th to 28th and July 19th to 28th, 2021. These surveys focused on fish habitat (May and July) and fish community (July) assessments, at all compensation features (Figure 2-1). These constructed features were created as a result of the necessity to deposit mine waste (i.e., tailings or mine rock) into water frequented by fish as part of the mine development and operation. The spring survey focused on habitat and flow connectivity within stream features while the mid-summer survey focused on habitat and fish communities in both stream and pond compensation features.

The Compensation measures include two different watercourses:

1) West Creek Diversion (Stockpile Pond, Stockpile Pond diversion channel, West Creek Pond, and West Creek diversion channel); and,

2) Clark Creek Diversion (Clark Creek Pond and Clark Creek diversion channel.

The locations of all features and the stream sampling stations are provided in Figure 2-1. Construction of the compensation measures were completed in 2016 and 2017. Construction of the Clark Creek Pond was completed in early 2016 and construction of the Clark Creek diversion channel was completed by late 2016. The Stockpile Pond and diversion channel were constructed by early 2016, whereas the West Creek Pond and diversion channel construction was completed by late 2017. Annual monitoring for Compensation features is to be completed annually until 2022 (AMEC 2017).

Within each of the watercourses, the fish habitat and fish communities were assessed utilizing methods outlined in the FHCP and provided in the following sections (AMEC 2017).

2.1.1 Stream Flow Measurements

Water velocity and depth were measured along a wetted channel cross-sectional width at each of the pre-established locations. At each point along transects both water depth and water velocity were measured. Depth was measured to the nearest centimetre using a graduated wading rod attached to the flow meter and velocity was measured with a SonTek FlowTracker2 Acoustic Doppler Velocimeter (ADV®) portable velocity meter (SonTek a XyLem Brand, San Diego, CA). Flow measurements targeted a variety of habitats including pool, riffle, and run/flat areas of the outlet channel. Flow measurements are to be taken during both a high-flow period (spring freshet) and a low-flow period (mid-summer). An extreme low water year substantially reduced the number of stations measured during the summer period (See **Section 3.0** Results).

2.1.2 Pond Depth Measurements

Wood (formerly AMEC Foster Wheeler) installed Solinst 3001 LT Levelogger Edge, M10 water level loggers at each pond. These loggers measured depth and temperature data in 15-minute intervals. Depth compensation corrections were calculated using the measurements from a Solinst 3001 Barologger Edge. RRM environmental department staff download logger data quarterly; the latest download was collected November 21st or November 22nd, 2021.

2.1.3 Fish Habitat Assessment

Surveys of constructed features such as boulders and woody debris piles were conducted in the summer season facilitated by the low water conditions. These fish habitat surveys were completed in both stream and pond habitats. The assessment of the riparian vegetation was also conducted in the summer season through photo-documentation and subsequent estimation of vegetative ground cover that surrounds both the diversion and pond features.

2.1.4 Fish Community Assessment

The fish community within the diversion channels (Stockpile Pond diversion channel, West Creek diversion cannel and Clark Creek Pond diversion channel) was assessed using a backpack electrofisher and overnight minnow trapping effort. The backpack electrofishing unit was adjusted to appropriate voltage, frequency, and duty cycle settings based on target fish size, water conductivity, and temperature to minimize the risk of harm to fish. Minnow traps were baited with dry cat food prior to deployment. As a result of the low water levels encountered at Stockpile Pond diversion channel during the survey, minnow traps were not utilized.

In pond features (Stockpile Pond, West Creek Pond and Clark Creek Pond) the fish community was assessed using beach seines, backpack electrofisher and minnow traps with the amount of effort prescribed in Table 1-2. A variety of habitats within the pond were targeted according to species preference (Scott and Crossman 1998). All captured fish were handled carefully, identified to species, and enumerated based on effort type. A subset of fish of a variety of sizes for each species were measured for fork and total length using an appropriately sized measuring board, and for round body weight using an Ohaus® Scout® Pro analytical balance (Model SP601). An external examination was conducted on all fish retained for measurements. Detailed observations were made on any features of the fish which did not appear normal (i.e., wounds, tumors, parasites, fin fraying, gill parasites, or lesions). All captured fish were released near the location of capture, with fish measurements recorded on waterproof field data collection sheets.

It should be noted that electrofishing is the most quantitative method for determining fish species diversity followed by seines and minnow traps. Electrofishing and seining are active methods whereas minnow traps are passive and some species are not prone to effective capture based on their habitat usage and behaviour (Jackson and Harvey 1997). Consequently, when discussing catches results are presented from most to least quantitative.

2.2 Data Analysis

Habitat data including stream flow, pond level vegetative community and total vegetative cover were compared to DFO success criteria (Table1-2). The number of fish captured were used to calculated Catch-Per-Unit-Effort (CPUE; by gear type). Measurement data from a subset of individuals from each captured species from each compensation feature was used to create length histograms to infer age distribution. CPUE, age distributions and the number of species were compared to DFO success criteria (Table 1-2).

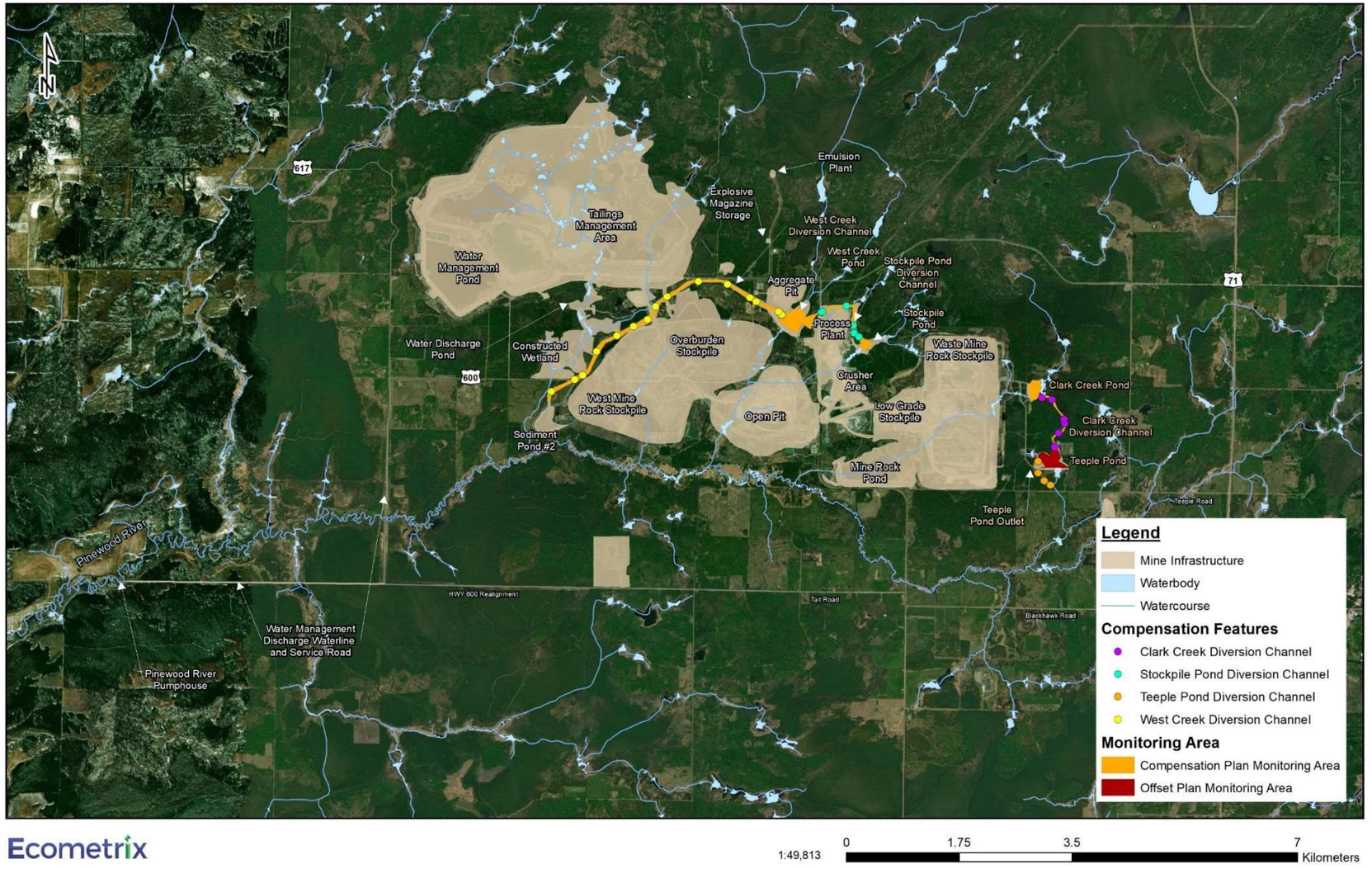


Figure 2-1 : Compensation Monitoring Areas, Rainy River Mine

3.0 Compensation Plan Annual Monitoring

3.1 Physical Conditions and Vegetation

3.1.1 Diversion Channels

During the spring survey the Stockpile Pond diversion channel only contained flowing water for approximately half of its overall length with the two established transect locations closest to Stockpile Pond being completely dry. The average depth and velocity of the Stockpile Pond diversion based on the four stations with flowing water in the spring was 8.3 cm and 0.011 m/s, respectively (Table 3-1, Appendix Table A-1, Photo B-1). During the summer survey all of the established stations on the Stockpile Pond diversion channel were dry and consequently no flow wetted width or depth measurements were taken (Appendix Photo B-2). The reduced flow in the diversion is the result of the reduced water retention in Stockpile Pond, an issue that is currently being investigated for appropriate contingency measures. A contributing factor may also be that the amount of precipitation at the RRM was below the 20-year climate norm in six of the first seven months of 2021. Despite the general lack of flowing water at the established transects, fish were captured in the diversion in isolated refuge pools fed by a groundwater seep approximately 450 m upstream of the site access road (Appendix Photo B-3).

The West Creek diversion channel flows from the outlet of West Creek Pond at the upstream end to Loslo Creek at the downstream end. The diversion is divided into upper and lower portions by the Haul Road (Figure 2-1). In May the average depth and velocity in the upper and lower portions of the West Creek diversion channel were 16.4 cm and 0.04 m/s, and 16.4 cm and 0.01 m/s, respectively (Table 3-1, Appendix Table A-2 and A-3, Photo B-4 and B-5). In the summer, owing to extremely dry conditions (Appendix Figure A.1) no stations in the upper West Creek diversion channel and only one station in the lower West Creek diversion channel had flowing water that was measurable (Appendix Photo B-6 and B-7). Although most established stations were dry there were some occurrences of isolated pools in both the upper and lower reaches during the summer survey (Appendix B-8).

In the spring, the Clark Creek diversion channel had an average depth of 18.5 cm and an average flow velocity of 0.009 m/s (Table A-4, Appendix Photo B-9). In the summer survey there was a similar story to the other two diversions with only one of six established transect stations having measurable flowing water at the time of the survey (Appendix Photo B-10).

Similar to previous years the Stockpile Pond diversion channel never contained sufficient water to allow fish passage between the upstream Stockpile Pond and the downstream West Creek Pond. This issue has led to the initiation of contingency measures associated with Stockpile Pond. In the spring the West Creek diversion channel and the Clark Creek diversion channel both provided connectivity between West Creek Pond and Loslo Creek for the former and Clark Creek Pond and Teeple Pond for the latter. However, in the summer both the West Creek and Clark Creek diversion channels contained insufficient water to allow for fish passage with large stretches of both diversions being dry. Despite low water levels in some stretches both the Clark Creek and West Creek diversions contained fish refugia in the form of remaining pools.

The riparian vegetation along the Stockpile Pond diversion channel was extensive. The upstream portion of the diversion may require some additional plantings following the contingency measures on the pond as the banks and stream bed were extremely dry and have been in that condition for the last number of years. This vegetation community included sedges (*Carex* sp.) grasses and cattails (Typha sp.) (Appendix Photo B-1 and B-2). Similar species were noted in the West Creek diversion channel both upstream and downstream of the haul road with riparian vegetation being close to complete (>95%), (Appendix Photo B-4 to B-8). During the spring survey when water levels were higher submergent macrophytes such as arrowhead (*Sagittaria* sp.), pondweed (*Potamogeton* sp.), burreed (*Sparganium* sp.), duckweed (Leemnoideae) and coontail (*Ceratophyllum* sp.) were particularly prevalent in the pools downstream of Haul Road. (Appendix Photo B.4 and B.7). Clark Creek diversion channel had riparian vegetation cover greater than 90% with similar species to the other diversions but also with large patches of raspberries (*Rubes occidentalis*), and signs of early successional trees such as speckled alder (*Alnus incana*). Throughout the Clark Creek diversion there were thick beds of cattail with other macrophytes such as burred and coontail observed in the pool habitat. (Appendix Photo B-9 and B-10).

The banks and riparian zones of all the diversion channels exceeded the success criteria of 80% cover. All constructed cover habitat in the form of woody debris, boulder clusters and pools appeared to be stable with no signs of movement or erosion since the 2020 survey.

3.1.2 Ponds

Generally, Stockpile Pond depths ranged from 0.2 to around 1.2 m during the April to December period (Figure 3-1). These depths represent a reduction compared to that in the design and contingency measures to maintain the pond depth at levels closer to those intended are currently being discussed with DFO. Photographic evidence of the reduced water level is provided in Appendix B (Photo B-11). In 2021, from January through to November West Creek Pond water depths ranged from 0.75 m to 1.25 m whereas the level in Clark Creek Pond ranged from around 1.25 m to 1.85 m over the same time period (Figure 3-1).

Both the Clark Creek Pond and West Creek Pond have had similarly stable levels over the 2019 to 2021 period with both appearing to be able to withstand periods of low precipitation like those experiences in the spring and summer of 2021 (Figure A-1). Even with record low rainfall the depths in these two ponds did not drop below 0.75 m and remained deep enough to provide refuge to fish during these low water periods. Stockpile Pond levels reported from the logger in the January to April period were highly variable an unreliable with some levels representing values that were not possible. It has been determined that the Stockpile Pond is losing water through subsurface flows to the groundwater. The "bad" readings were likely the result of thick ice or the probe freezing rather than water depth. If contingency measures move forward at this pond the logger will need to be removed and then reinstalled. Despite the lower than designed water levels the fish community survey indicated Stockpile Pond continued to provide overwintering refuge habitat (See **Section 3.2**).

Table 3-1: Diversion Channel Depth and Flow Measurements, May 2021

Waterbody	Monitoring Station	Station Depth (cm)		Area Depth (cm)		Station Flow (m/s)		Area Flow (m/s)	
		Mean	SD	Mean	SD	Mean	SD	Mean	SD
Stockpile Pond Diversion Channel	SPDC-Culvert	4.2	3.37	8.3	8.55	0.015	0.0232	0.012	0.0214
	SPDC-01	17.7	8.86			0.001	0.0015		
	SPDC-02	3.5	1.29			0.027	0.0311		
	SPDC-03	3.0	0.82			-	-		
	SPDC-04	-	-			-	-		
	SPDC-05	-	-			-	-		
West Creek Diversion Channel (downstream of haul road)	WCDC-A1	3.3	3.39	16.4	20.87	0.0003	0.000648	0.012	0.0305
	WCDC-A2	19	14.85			0.002	0.0025		
	WCDC-A3	3.7	2.88			0.065	0.0608		
	WCDC-A4	48.5	28.42			0.000	0.0018		
	WCDC-A5	6.5	1.73			0.007	0.0063		
	WCDC-A6	7.2	2.05			0.024	0.0256		
	WCDC-A7	29	21.29			0.002	0.0025		
West Creek Diversion Channel (Upstream of haul road)	WCDC-01	9.3	7.11	16.4	13.28	0.008	0.0167	0.042	0.0017
	WCDC-02	4	0.63			0.271	0.2628		
	WCDC-03	25.2	6.55			0.025	0.0396		
	WCDC-04	5.4	1.52			0.063	0.0700		
	WCDC-05	24.9	2.34			0.000	0.0023		
	WCDC-06	25.3	12.63			0.001	0.0026		
	WCDC-07	3.5	2.74			0.064	0.1058		
	WCDC-08	31.6	18.25			0.001	0.0012		
	WCDC-09	13.6	9.82			0.000	0.0008		
Clark Creek Diversion Channel	CCDC-01	42.2	29.22	18.5	18.83	0.003	0.0035	0.009	0.0275
	CCDC-02	10.7	7.25			0.006	0.0143		
	CCDC-03	2.75	3.22			0.010	0.0341		
	CCDC-04	10.4	8.91			0.023	0.0474		
	CCDC-05	20.2	12.11			0.013	0.0396		
	CCDC-06	21.9	9.34			0.006	0.0194		

Note: Station on Stockpile, Clark Creek and West Creek Diversion downstream of the Haul Road are labelled from downstream to upstream. West Creek Diversion stations are labelled from West Creek Pond to the Haul Road.

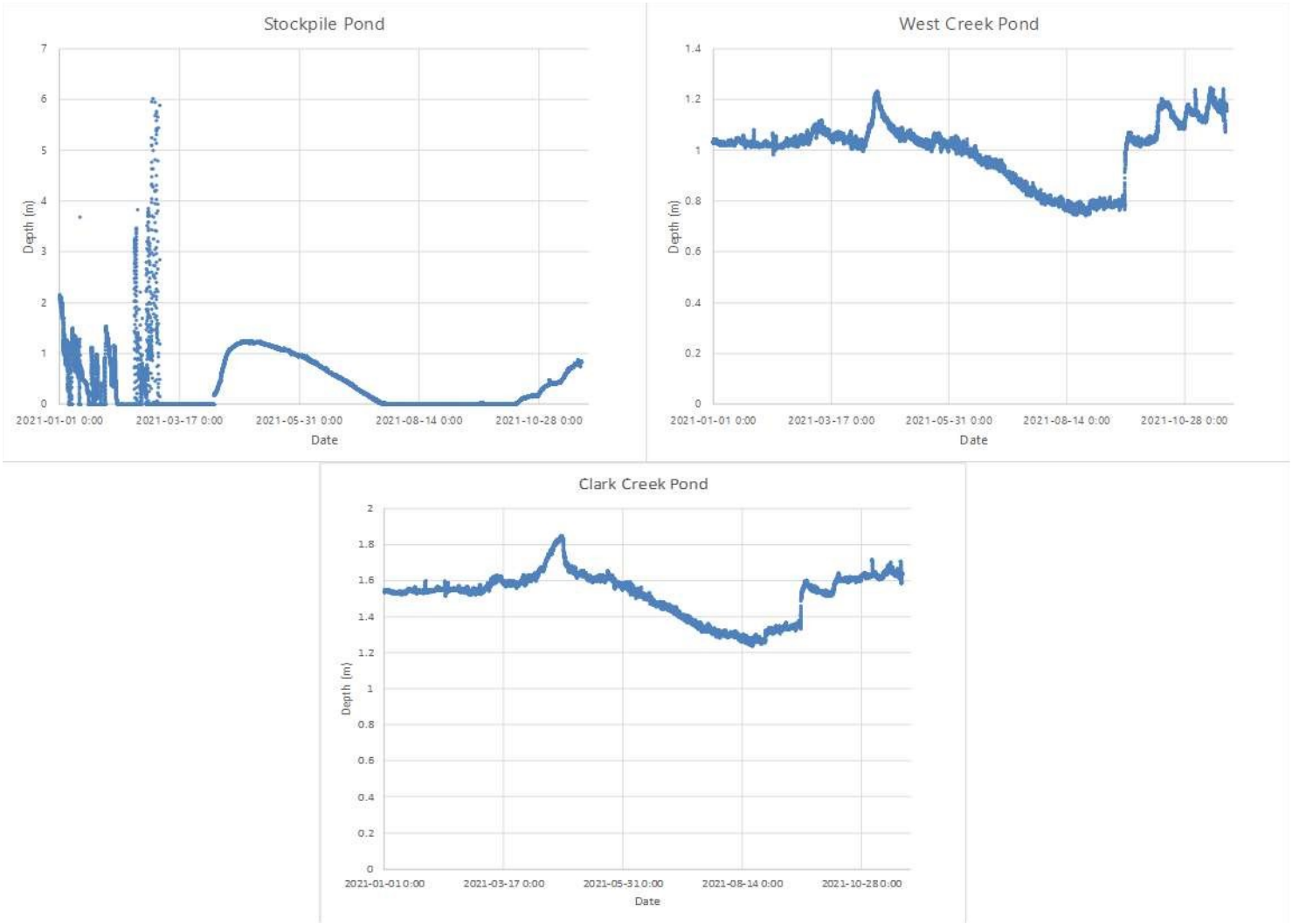


Figure 3-1: Stockpile Pond, West Creek Pond and Clark Creek Pond Depths (January 01 to November 22, 2021)

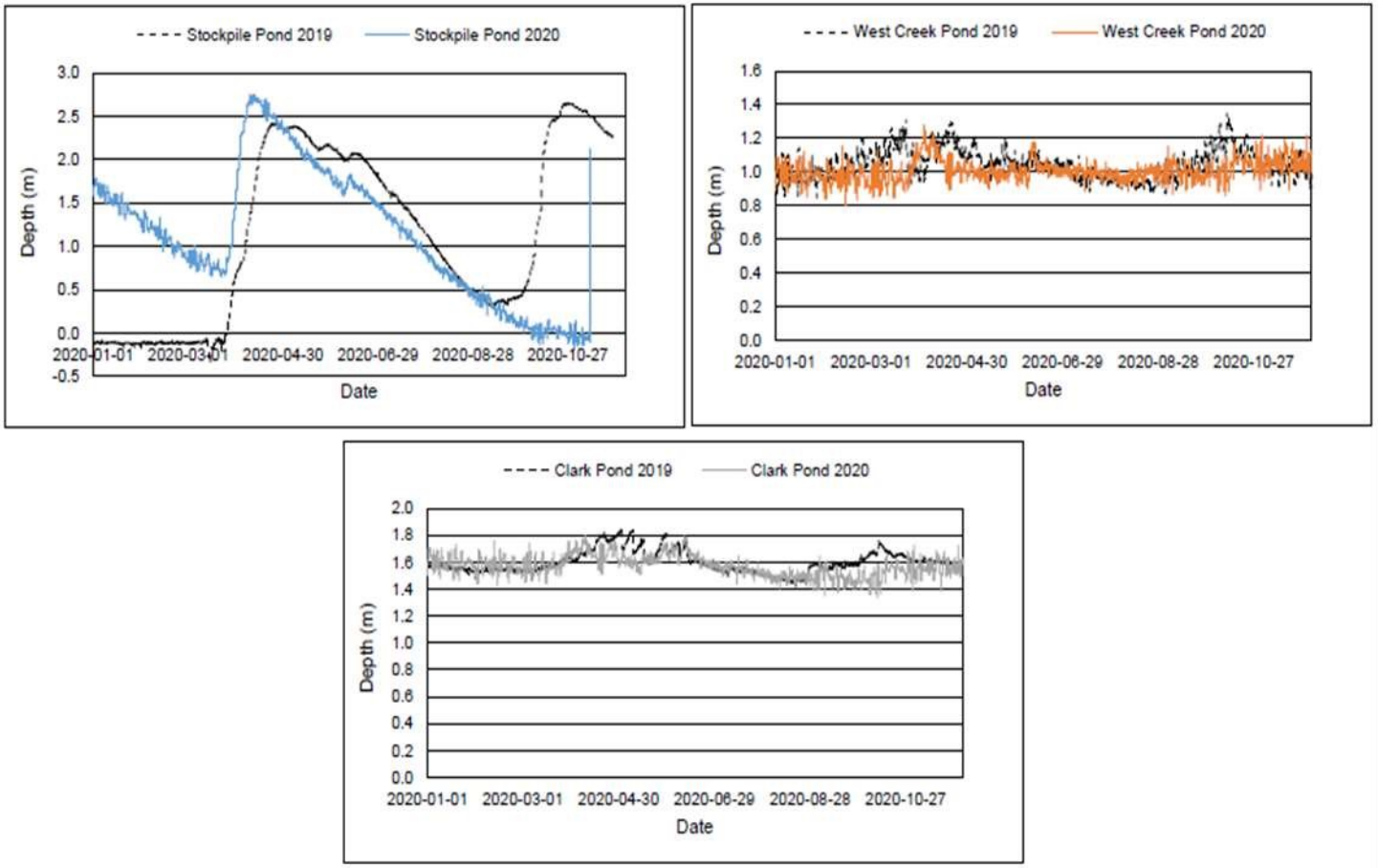


Figure 3-2: Stockpile, West and Clark Pond Depths – 2019 and 2020 (from Minnow 2020)

Around the constructed perimeter of Stockpile Pond extensive vegetation cover (>90%) exists. Tree species observed in the forested portion of the perimeter included aspen, black spruce (*Picea mariana*), willow (Salix sp.). Along the high-water line grasses, sedges, Golden Rod (*Solidago* sp.), clover (*Trifolium* spp.) and Bird-foot Trefoil (*Lotus corniculatus*) and other forbs such as Golden (Appendix Photo B-11). Emergent macrophytes were limited to the shallower northeastern portion of the pond. Similarly, submergent macrophytes were generally absent from the main basin of Stockpile Pond near the dam, likely owing to the rock bottom. In the softer soils submergent macrophytes included pondweed and burred with some arrowhead. As noted Stockpile Pond levels have decreased yearly since construction and in July 2021 large expanses of the pond bottom were exposed (Appendix Photo B-11). Following contingency measures additional plantings will be required in the area of mechanical disturbance surround the pond. Future monitoring of Stockpile Pond following the contingency implementation should include continued vegetation survey to report on these measures.

The perimeter of West Creek Pond has an extensive vegetation community with large stands of cattails as well as some arrowhead, sedges and grasses (Appendix Photo B-12). Vegetation cover was great than 90% surrounding the West Creek Pond. Moving away from the shoreline the forest that borders the pond generally consists of black spruce and trembling aspen (*Populus tremuloides*). Submergent vegetation is prevalent throughout the pond with the community primarily comprised of burred and pondweed with some small areas of pond lily.

The edge of Clark Pond has large expanses of flooded timber as well willow and leatherleaf shrubs. There are also large expanses of aquatic species such as cattail, bulrush, sedges and grasses (Appendix Photo B-12). The perimeter is well vegetated with greater than 90 % cover. Within the pond there the submergent vegetation community was similar to the other ponds with burreed, coontail and pond lily the primary species observed.

All three ponds had a diverse vegetation community with over 90% cover. Forested habitat was generally comprised of black spruce and trembling aspen whereas emergent vegetation was primarily cattails, grasses and sedges. Submergent vegetation was predominantly coontail, burred and pondweed and to a lesser extend pond lily. Constructed fish cover in the form of boulder piles and woody debris appeared stable and in place in all ponds.

3.2 Fish Community

All compensation features have success criteria for the establishment of a healthy resident fish community. These success criteria must be met by both the stream (i.e. diversion) and pond features and include species diversity, fish abundance (CPUE) and an indication of sustainability through the presence of multiple year classes (Table 1-2).

3.2.1 Diversion Channels

In the Stockpile Pond diversion channel, limited effort due to low water levels resulted in the capture of 60 fish. The fish community included (listed in order of abundance) Brook Stickleback (*Culaea inconstans*), Central Mudminnow (*Umbra limi*), Finescale Dace (*Chrosomus neogaeus),*

Creek Chub (*Semotilus atromaculatus*) and White Sucker (*Catostomus commersonii*) (Tables 3-2 and 3-3). Fish capture results equated to a prorated CPUE of 215 fish captured per 1,000 seconds of electrofishing effort (Table 3-4; Appendix Tables A-5). Minnow traps were not utilized due to low water levels within the Stockpile Pond diversion channel. Additionally, fish were not measured due to limited catch. However, multiple age classes were observed for four of the five species captured

Stockpile Pond diversion channel obtained success criteria for electrofishing CPUE and multiple age classes but not species diversity or minnow trap CPUE. It should be noted that the amount of effort expended in the Stockpile Pond diversion channel was reduced to the available habitat (Table 3-3; Appendix Tables A-5 and A-6). That is, minnow traps were not utilized in 2021 due to low water levels and the amount of electrofishing effort was reduced based on available habitat.

In West Creek diversion channel the fish community included, (listed in order of abundance) Northern Redbelly Dace (*Chrosomus eos*), Brook Stickleback, Central Mudminnow, Creek Chub, Pearl Dace (*Margariscus margarita*), Brassy Minnow (*Hybognathus hankinsoni*), Common Shiner (*Luxilus cornutus*), White Sucker, Fathead Minnow (*Pimephales promelas*), Finescale Dace and Johnny Darter (*Etheostoma nigrum)* (Table 3-2). There was an abundant fish community with 571 fish captured from 11 different species. This resulted in CPUEs of 206 fish captured per 1,000 seconds of electrofishing effort and 0.88 fish captured per minnow trap hour (Table 3-3 and 3-4; Appendix Tables A-5 and A-6). Length frequency histograms indicate that multiple age classes of a variety of species were captured (Table 3-2; Figure A-2). It should be noted that some minnow trap catches resulted in high mortality rates due to low overnight oxygen levels.

West Creek Diversion Channel obtained the success criteria for species diversity, electrofishing CPUE and multiple age classes present while the criterion for minnow trap CPUE was not obtained (Table 3-4, Appendix Figure A-2, Appendix Tables A-5 and A-6).

In Clark Creek diversion channel, a total of 130 fish were captured. The fish community included, (listed in order of abundance) Central Mudminnow, Brook Stickleback, Finescale Dace, Northern Redbelly Dace and Brassy Minnow (Table 3-2). Fish capture results included CPUEs of 56 fish captured per 1,000 seconds of electrofishing effort and 0.23 fish captured per minnow trap hour (Table 3-4; Appendix Tables A-5 and A-6). Length frequency histograms indicate that multiple age classes of a variety of species were captured (Table 3-3; Appendix Figure A-3). Similar to the West Creek diversion channel some minnow trap catches in Clark Creek also resulted in high mortality rates due to low overnight oxygen levels.

Clark Creek Diversion Channel obtained the success criteria for electrofishing CPUE and multiple age classes present while criteria for species diversity and minnow trap CPUE were not met (Table 3-4, Appendix Figure A-1, Appendix Tables A-5 and A-6).

The current survey represents the fourth annual monitoring (2018-2021) of the stream compensation features at RRM. Throughout the years the survey results have generally been comparable with the West Creek diversion channel consistently meeting success criteria for species diversity and electrofishing. Stockpile Pond diversion channel obtained the diversity

target once, in 2018 and the electrofishing target once in 2021 but otherwise low water levels have limited the success of this feature. The Clark Creek Pond diversion channel met the success criterion for electrofishing in 2019 and 2021 while it did not meet the diversity success criterion in any year. As noted in previous reports the success criterion for minnow trap CPUE may be unrealistic as the stream features have never approached the success criteria in any of the five years of monitoring (Table 2-3). This is likely more related to electrofishing being a more effective method of sampling in small flowing systems such as they diversion and are not necessarily reflective of the fish community. With respect to species diversity in the Clark Creek diversion, it may also be unrealistic for nine species to inhabit the diversion at the time of sampling given the fact that the baseline date indicated that 80% of the community in that area was comprised of four species (AMEC 2013).

Table 3-2: Species Presence during Compensation Plan Annual Monitoring, Rainy River Mine 2021

Species	Stream Habitat			Pond Habitat		
	West Creek Diversion Channel	Clark Creek Diversion Channel	Stockpile Pond Diversion Channel	Stockpile Pond	West Creek Pond	Clark Creek Pond
Brown Bullhead	-	-	-	✓	✓	-
Brassy Minnow	✓	✓	-	✓	✓	✓
Brook Stickleback	✓	✓	✓	✓	✓	✓
Creek Chub	✓	-	✓	✓	✓	✓
Central Mudminnow	✓	✓	✓	✓	✓	✓
Common Shiner	✓	-	-	✓	-	-
Fathead Minnow	✓	-	-	✓	✓	✓
Finescale Dace	✓	✓	✓	-	✓	✓
Johnny Darter	✓	-	-	-	✓	-
Northern Redbelly Dace	✓	✓	-	✓	✓	✓
Pearl Dace	✓	-	-	✓	✓	-
White Sucker	✓	-	✓	✓	-	-
YOY Cyprinid	-	-	-	-	-	✓
Total Species Present[a]	11	5	5	10	10	7

Denotes waterbody achieved diversity success criterion of ≥ 9 species.

Notes: ✓ indicates species is present. "-" indicates species is not present.

[a] Does not include YOY Cyprinid.

Table 3-3: Fish Capture Summary during Compensation Annual Monitoring, Rainy River Mine 2021

a) Stream Features

Waterbody	Electrofishing			Minnow Trap		
	Total Effort[a]	Total Catch	Total CPUE[b]	Total Effort[a]	Total Catch	Total CPUE[b]
Stockpile Pond Diversion	279	60	0.22	-	-	-
West Creek Diversion Channel	1,068	220	0.21	399	351	0.88
Clark Creek Diversion Channel	1,062	59[c]	0.06[c]	314	71	0.23

b) Pond Features

Waterbody	Electrofishing			Minnow Trap			Seine Net		
	Total Effort[a]	Total Catch	Total CPUE[b]	Total Effort[a]	Total Catch	Total CPUE[b]	Total Effort[a]	Total Catch	Total CPUE[b]
Stockpile Pond	10,019	442	0.04	1,671	2.241	1.34	1,125	3,622	3.22
West Creek Pond	10,024	274	0.03	1,764	1,896	1.07	1,240	6,876	5.55
Clark Creek Pond	10,001	760	0.08	1,763	848	0.48	753	5,304	7.04

[a] Effort defined as minnow trap = total trap hours, electrofishing = total seconds, and seine net = total m^2 seined.
[b] CPUE defined as minnow trap = number of fish per trap hour, electrofishing = number of fish per second, and seine net = number of fish per m^2.

Table 3-4: Compensation Annual Monitoring Results Compared to DFO Success Criteria

Year / Waterbody			Stockpile Pond Diversion Channel	West Creek Diversion Channel	Clark Creek Diversion Channel	Stockpile Pond	West Creek Pond	Clark Creek Pond
DFO Success Criteria	Diversity[a]	2018[b]	12	12	7	12	12	7
		2019[c]	-	14	4	11	14	6
		2020[c]	-	13	5	10	11	6
		2021	5	11	5	10	10	7
		Target	≥ 9 fish species					
	Electrofishing	2018[b]	31	86	16	5	2	4
		2019[c]	-	183	69	96	38	109
		2020[c]	-	151	28	39	11	52
		2021	215	206	56	44	27	76
		Target	≥ 44 fish per 1,000 seconds					
	Minnow Trap	2018[b]	0.42	0.35	0.06	1.01	1.73	1.02
		2019[c]	-	1.19	0.31	0.18	1.22	0.39
		2020[c]	-	0.89	0.23	0.58	0.49	0.29
		2021	-	0.88	0.23	0.96	1.07	0.48
		Target	≥ 2 fish per trap hour					
	Seine Net	2018[b]	-	-	-	538	255	172
		2019[c]	-	-	-	739	451	1,365
		2020[c]	-	-	-	314	294	461
		2021	-	-	-	362	688	530
		Target	N/A			≥ 16 fish per 15 m trap haul		

Denotes value achieved success criterion.

Notes: "-" denotes no data available (e.g., no water in Stockpile Pond diversion channel). N/A denotes a component not required as part of the monitoring program,

[a] Total species count does not include young-of-year cyprinids.

[b] Previous studies conducted by Wood (Wood 2018 a, b).

[c] Previous studies conducted by Minnow (Minnow 2019, 2020).

3.2.2 Ponds

In Stockpile Pond, the fish community included (listed in order of abundance) Common Shiner, Brown Bullhead (*Ameiurus nebulosus*), Creek Chub, Northern Redbelly Dace, Fathead Minnow, Central Mudminnow, White Sucker, Brassy Minnow, Brook Stickleback and Pearl Dace (Tables 3-2 and 3-3; Appendix Table A-5, A-7 and A-8). There was an abundant fish community in the pond with a total of 6,305 fish captured from 10 different species. This included CPUEs of 44 fish captured per 1,000 seconds of electrofishing effort, 362 fish captured per 15 m seine net haul, and 1.34 fish captured per minnow trap hour (Table 3-3, 3-4; Appendix Tables A-5, A-7 and A-8). Length frequency histograms indicate that multiple age classes including YOY were captured (Appendix Figure A-2). Stockpile Pond obtained the success criteria for species diversity, multiple age classes present, electrofishing and seine net CPUE, whereas the criterion for minnow trap CPUE was not met obtained (Table 3-3 and 3-4, Appendix Figure A-4, Appendix Tables A-5, A-7 and A-8).

In West Creek Pond, a diverse fish community of 10 species was present in 2021. The fish community included (listed in order of abundance) Brown Bullhead, Finescale Dace, Northern

Redbelly Dace, Central Mudminnow, Brook Stickleback, Pearl Dace, Creek Chub, Johnny Darter, , Fathead Minnow, and Brassy Minnow (Tables 3-2 and 3-3). There was an abundant fish community in the pond with a total of 9,046 fish captured. This resulted in CPUEs of 27 fish captured per 1,000 seconds of electrofishing effort, 688 fish captured per 15 m seine net haul, and 1.07 fish captured per minnow trap hour (Table 3-3 and 3-4; Appendix Tables A-5, A-7 and A-8). Similar to Stockpile Pond, length frequency histograms indicate that multiple age classes including YOY were captured (Appendix Figure A-5). West Creek Pond obtained the success criteria for species diversity, multiple age classes present and seine net CPUE. Success criteria were not obtained for electrofishing or minnow trap CPUE (Table 3-4).

In Clark Creek Pond, the fish community included (listed in order of abundance) Finescale Dace, Brook Stickleback, Central Mudminnow, Brassy Minnow, Northern Redbelly Dace, Fathead Minnow and Creek Chub, (Tables 3-2 and 3-3). A total of 6,912 fish were captured from seven different fish species. These catches resulted in CPUEs of 76 fish captured per 1,000 seconds of electrofishing effort, 530 fish captured per 15 m seine net haul, and 0.48 fish captured per minnow trap hour (Table 3-3 and 3-4; Appendix Tables A-5, A-7 and A-8). As with the other two ponds, multiple age classes including YOY of various species were captured (Appendix Figure A-6). Clark Pond obtained success criteria for the use by multiple age classes as well as electrofishing and seine net CPUEs. Success criteria were not obtained for species diversity or minnow trap CPUE (Table 3-3).

Similar to the stream features, the current survey represents the fourth annual monitoring (2018-2021) of the pond compensation features at RRM. Over the past four years, all three ponds have met success criteria for use by multiple age classes and at least one fishing technique (i.e., seine net) (Table 3-4, Appendix Figures A-4 to A-6). As previously noted, the criteria of minnow trap CPUE may be unrealistic as the pond features have never approached the success criteria in any of the four years of monitoring (Table 3-4). Stockpile and West Creek Pond consistently meet the success criterion for diversity while Clark Creek Pond has remained similar in all four years (6-7 species), less that the success criterion of nine species (Table 3-4).

4.0 Conclusions

The key results of the 2021 Compensation Monitoring are as follows:

- The vegetation communities both within and beside the constructed stream and ponded features are now well established and exceed the 80% cover criteria;
- All compensation features appear stable with no indication of migration of constructed fish habitat such as boulder clusters or woody debris piles;
- Stockpile Pond diversion water levels remained below design basis and this feature did not allow fish passage from West Creek Pond upstream to Stockpile Pond. This lack of connectivity should be corrected by appropriate contingency measures developed through consultation with DFO and applicable interested parties.
- Precipitation levels at RRM that were less than the 20-year climate norm resulted in dry conditions and consequently West Creek and Clark Creek diversions also did not allow fish passage for a portion of the year.
- All waterbody features met a success criterion for at least one fishing technique (electrofishing for streams and seine netting for ponds).
- All features also met the success criteria for multiple age classes, indicating adequate habitat for spawning and rearing habitat for the species that exist within the ponds.
- The West Creek diversion channel, Stockpile Pond and West Creek Pond obtained the success criterion for species diversity;
- Clark Creek diversion channel and Clark Creek Pond did not meet the species diversity criterion.

Overall, the West Creek diversion channel has consistently obtained success criteria for species diversity, at least one fishing technique and multiple year classes in all for years of sampling. Conversely, Clark Creek diversion channel has never obtained the diversity success criterion but has met the criteria for multiple age classes in each year and electrofishing CPUE twice in four years. Stockpile Pond diversion channel obtained species diversity once in 2018 and exceeded electrofishing CPUE in 2021. Fishing effort has been limited throughout the four years and an increase it water should help this feature approach success for the other criteria. The 2021 sampling was conducted during an extreme low water event and consequently none of the diversions provided the designed connectivity. This is somewhat expected given the natural state of the watercourses in the area with large waterbodies such as the Pinewood River also experiencing times of isolated water in reaches near the site. It is worth noting that despite the diversions not allowing for full passage up and down their length, the remaining wetted habitat did provide areas of refuge as was evident by the fish catches.

Although isolated at the top of the West Creek diversion complex Stockpile Pond obtained all of the fish species presence, life cycle usage and abundance criteria as the CPUE exceeded their targets for at least two fish capture methods. Minnow trapping as a means of fish capture has never provided a reasonable representation of the abundance of fish inhabiting the ponded features. As such it's utility as a metric of success may be minimal.

5.0 Closure and Recommendations

Based on the findings of the 2021 RRM Compensation Annual Performance surveys conducted in May and July 2021, Stockpile Pond achieved success for all but one (minnow trap CPUE) prescribed abundance criteria with the other watercourses underperforming to varying degrees. As mentioned, minnow trapping has not proven to be a representative means of fish sampling in channelized or pond compensation features over the monitoring period. Instances of not meeting performance criteria at Stockpile Pond and Stockpile Pond Diversion may be abated with an increase in water levels in the system. New Gold is currently in discussions with DFO related to contingency measures at Stockpile Pond to decrease water seepage from the system, therefore increasing and maintaining the pond water levels, thereby improving its connectivity to downstream features. Success of any contingency measures will be determined through continued monitoring of Stockpile Pond and Stockpile diversion channel that will extend beyond the original 5-year period outlined in the FHCP.

As noted, the first four years of the monitoring indicate that Stockpile Pond is highly productive. However, the pond is not meeting the design criteria for wetted area and volume. An investigation by BGC, who is the Engineer of Record for the Stockpile Pond dams indicated that the decreasing water levels in the pond are the result of a slightly smaller watershed than originally assumed during design, but more importantly that water is infiltrating the bottom of the pond and seeping out through the Stockpile Pond dam and the outlet apron. At present, New Gold has entered into discussion with DFO related to the potential implementation of design based contingency measures with the objective to retain water in Stockpile Pond at original design basis levels, thereby maintaining connectivity to downstream features all the way to Loslo Creek.

CPUE criteria were not met in the West Creek and Clark Creek diversions. Meeting the requirement to fulfil both minnow trap and electrofishing efforts under such low water conditions was not feasible. Similar to all studies since 2018, in 2021 the fish species diversity criterion was only achieved in West Creek diversion channel and not the other two diversions. These trends are related to low water / connectivity issues (Stockpile Pond) and a lower natural species assemblage present in that portion of the compensation features (Clark Creek diversion) (AMEC , 2013). New Gold would welcome the opportunity to engage DFO is discussions related to the monitoring program design in advance of the 5th year of monitoring to determine if the success criteria and amount of effort remain the most effective metrics for measuring success of the constructed features.

Considering the preceding, it is recommended that:

- RRM staff continue to manage any beaver activity within the compensation features that may hinder connectivity or water contributions to the diversions;
- RRM implement the DFO agreed upon contingency in Stockpile Pond to increase water levels to near the design specifications; and,

- Conduct the 5th year of monitoring on all features in the FHCP.

6.0 References

AMEC. 2013. Rainy River Resources Ltd. Rainy River Project: Fish Habitat No Net Loss Plan Section 35(2) Waterbodies Version B. December 2013.

Amec Foster Wheeler. 2015. Rainy River Project: Offset Plan for Fisheries Act Section 35(2)(b) Authorization. May 2015.

Scott, W.B. and Crossman, E.J. 1998. Freshwater Fishes of Canada. Galt House Publications, Oakville, Ontario.

Jackson, D.A. and Harvey H.H. 1997. Qualitative and Quantitative Sampling of Lake Fish Communities. Canadian Journal of Fisheries and Aquatic Sciences, 1997. 54(12): 2807-2813

Wood. 2018a. 2018 Annual Monitoring Report – Schedule 2 MDMER Fish Habitat Compensation Plan. December 2017. Wood. 2018b. 2018 Annual Monitoring Report – Offset Plan for Fisheries Act Section 35(2)(b) Authorization. December 2018.

Wood. 2018b. 2018 Annual Monitoring Report – Offset Plan for Fisheries Act Section 35(2)(b) Authorization. December 2018.

Minnow (Minnow Environmental Inc.). 2019. Annual Monitoring of Compensation and Offset Measures 2019. Report prepared for New Gold Inc. Rainy River Mine. December 2019.

Minnow (Minnow Environmental Inc.). 2020. Annual Monitoring of Compensation and Offset Measures 2020. Report prepared for New Gold Inc. Rainy River Mine. December 2020.

Appendix A Detailed Survey Data

Table A-1: Spring, High-Flow Transect Depth and Flow Velocity Data in the Stockpile Pond Diversion, May 2021.

Station	Measurement	Channel Interval							Mean
		1	2	3	4	5	6	7	
SPDC-Culvert	Distance from shore (m)	0.2	0.4	0.6	0.8	1	1.2	-	-
	Depth (cm)	6	8	6	5	0	0	-	4.2
	Velocity (m/s)	0.0138	0.0578	0.0202	-0.0045	0	0	-	0.015
SPDC-01	Distance from shore (m)	0.9	1.8	2.7	3.6	4.5	5.4	6.3	-
	Depth (cm)	15	13	27	28	24	13	4	17.7
	Velocity (m/s)	-0.0001	0	0.0002	0.0038	0.0017	0.0019	0	0.001
SPDC-02	Distance from shore (m)	0	0.2	0.4	0.7	-	-	-	-
	Depth (cm)	2	3	5	4	-	-	-	3.5
	Velocity (m/s)	0	0.00002	0.0587	0.0482	-	-	-	0.027
SPDC-03	Distance from shore (m)	0.2	0.4	0.6	0.7	-	-	-	-
	Depth (cm)	3	3	4	2	-	-	-	3
	Velocity (m/s)	No Surface Flow							
SPDC-04	Distance from shore (m)	No Surface Flow							
	Depth (cm)								
	Velocity (m/s)								
SPDC-05	Distance from shore (m)	No Surface Flow							
	Depth (cm)								
	Velocity (m/s)								

Table A-2: Spring, High-Flow Transect Depth and Flow Velocity Data in the West Creek Diversion Upstream of the Haul Road, May 2021.

Station	Measurement	Channel Interval									Mean
		1	2	3	4	5	6	7	8	9	
WCDC-01	Distance from shore (m)	0.3	0.6	0.9	1.2	1.5	1.8	2	-	-	-
	Depth (cm)	7	12	20	16	7	3	0	-	-	9.3
	Velocity (m/s)	0.0005	-0.0001	0.0019	0.0453	0.007	0.001	0	-	-	0.008
WCDC-02	Distance from shore (m)	0	0.1	0.2	0.3	0.4	0.5	-	-	-	-
	Depth (cm)	4	4	5	4	4	3	-	-	-	4
	Velocity (m/s)	0.561	0.5912	0.3066	0.0023	0.1629	0	-	-	-	0.271
WCDC-03	Distance from shore (m)	0	0.2	0.4	0.6	0.8	1	-	-	-	-
	Depth (cm)	33	26	30	25	23	14	-	-	-	25.2
	Velocity (m/s)	0.0001	0.0599	0.0891	0.0002	0	-0.0003	-	-	-	0.025
WCDC-04	Distance from shore (m)	0.15	0.3	0.45	0.6	0.8	-	-	-	-	-
	Depth (cm)	3	6	7	6	5	-	-	-	-	5.4
	Velocity (m/s)	0.1106	0.0363	0.1601	0.0061	0	-	-	-	-	0.063
WCDC-05	Distance from shore (m)	0	0.4	0.8	1.2	1.6	2	2.4	-	-	-
	Depth (cm)	24	25	24	24	24	30	23	-	-	24.9
	Velocity (m/s)	-0.0023	-0.0038	0.0009	0.0027	0.0008	0.0005	0.0015	-	-	0.00004
WCDC-06	Distance from shore (m)	0	0.3	0.6	0.9	1.2	1.5	1.7	-	-	-
	Depth (cm)	23	34	37	37	29	12	5	-	-	25.3
	Velocity (m/s)	0.0002	-0.0014	0.0035	0.001	0.0063	0	0	-	-	0.001
WCDC-07	Distance from shore (m)	0.15	0.3	0.45	0.6	0.75	0.9	-	-	-	-
	Depth (cm)	6	5	5	5	0	0	-	-	-	3.5
	Velocity (m/s)	0.2577	0.0064	0.1176	0.0001	0	0	-	-	-	0.064
WCDC-08	Distance from shore (m)	0	0.5	1	1.5	2	2.5	2.7	-	-	-
	Depth (cm)	18	43	47	53	38	18	4	-	-	31.6
	Velocity (m/s)	0.0002	0.0003	0.0003	0.0029	0.0011	-0.0009	0	-	-	0.001
WCDC-09	Distance from shore (m)	0.75	1.5	2.25	3	3.75	4.5	5.25	6	6.2	-
	Depth (cm)	10	14	18	23	27	22	8	0	0	13.6
	Velocity (m/s)	0.0006	0.0001	0.0001	0.0001	0.0001	0.0026	0	0	0	0.0004

Table A-3: Spring, High-Flow Transect Depth and Flow Velocity Data in the West Creek Diversion Downstream of the Haul Road, May 2021

Station	Measurement	Channel Interval												Mean
		1	2	3	4	5	6	7	8	9	10	11	12	
WCDC-A1	Distance from shore (m)	0	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	-
	Depth (cm)	1	1	1	1	1	1	1	8	11	6	4	3	3.3
	Velocity (m/s)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.0011	0.0004	0.0001	-	0.0003
WCDC-A2	Distance from shore (m)	0.5	1	1.5	2	2.5	2.8	-	-	-	-	-	-	-
	Depth (cm)	26	40	28	12	8	0	-	-	-	-	-	-	19.0
	Velocity (m/s)	-0.0002	0.0017	0.0047	0.0052	-0.0001	0	-	-	-	-	-	-	0.0019
WCDC-A3	Distance from shore (m)	0	0.15	0.3	0.45	0.7	0.75	-	-	-	-	-	-	-
	Depth (cm)	0	6	6	5	5	0	-	-	-	-	-	-	3.7
	Velocity (m/s)	0.1034	0.0981	0.1479	0.0396	0.0005	0	-	-	-	-	-	-	0.0649
WCDC-A4	Distance from shore (m)	0.5	1	1.5	2	2.5	3	-	-	-	-	-	-	-
	Depth (cm)	35	64	80	70	39	3	-	-	-	-	-	-	48.5
	Velocity (m/s)	-0.0028	0.0006	0.0016	0.0025	0.001	0	-	-	-	-	-	-	0.0005
WCDC-A5	Distance from shore (m)	0	0.2	0.4	0.7	-	-	-	-	-	-	-	-	-
	Depth (cm)	5	8	8	5	-	-	-	-	-	-	-	-	6.5
	Velocity (m/s)	0.0066	0.0152	0.0049	0.0002	-	-	-	-	-	-	-	-	0.0067
WCDC-A6	Distance from shore (m)	0	0.15	0.3	0.5	0.85	-	-	-	-	-	-	-	-
	Depth (cm)	7	7	9	9	4	-	-	-	-	-	-	-	7.2
	Velocity (m/s)	0.0525	0.0489	0.0160	0.0001	0.0004	-	-	-	-	-	-	-	0.0236
WCDC-A7	Distance from shore (m)	0	0.5	1	1.5	2	2.5	3	3.5	4		-	-	-
	Depth (cm)	24	53	59	51	31	23	15	3	2	-	-	-	29.0
	Velocity (m/s)	0.0076	0.0004	0.0002	0.0031	0.0028	0.0002	0.0004	0	0	-	-	-	0.0016

Table A-4: Spring, High-Flow Transect Depth and Flow Velocity Data in the Clark Creek Pond Diversion, May 2021

Station	Measurement	Channel Interval													Mean
		1	2	3	4	5	6	7	8	9	10	11	12	13	
CCDC-01	Distance from shore (m)	0.2	1	2	3	4	5	6	7	8	8.7	-	-	-	-
	Depth (cm)	0	2	52	63	70	73	68	53	33	8	-	-	-	42.2
	Velocity (m/s)	0	0.0012	-0.0002	-0.0015	0.0099	0.0023	0	0.0061	0.0047	0.0035	-	-	-	0.0026
CCDC-02	Distance from shore (m)	1	2	2.5	3	3.5	4	4.5	5	5.8	-	-	-	-	-
	Depth (cm)	10	15	20	21	12	10	5	3	0	-	-	-	-	10.7
	Velocity (m/s)	0	0.0001	0.0428	0.0133	0.0009	0.0001	0.0001	0	0	-	-	-	-	0.0064
CCDC-03	Distance from shore (m)	0	0.4	0.8	1.2	1.6	2	2.4	2.8	3.2	3.4	3.8	4.4	-	-
	Depth (cm)	1	1	1	1	2	3	4	12	5	1	1	1	-	2.8
	Velocity (m/s)	0	0	0	0	0	0	0.0001	0.1181	0.0001	0	0	0	-	0.0099
CCDC-04	Distance from shore (m)	0.5	1	1.5	2	2.2	-	-	-	-	-	-	-	-	-
	Depth (cm)	4	19	21	6	2	-	-	-	-	-	-	-	-	10.4
	Velocity (m/s)	0	0.00554	0.1072	0.0001	0	-	-	-	-	-	-	-	-	0.0226
CCDC-05	Distance from shore (m)	0	0.5	1	1.5	2	2.5	3	3.5	3	4	-	-	-	-
	Depth (cm)	2	12	25	28	33	36	29	17	18	2	-	-	-	20.2
	Velocity (m/s)	0	0.0002	0.0001	0.0058	0.126	0.0002	0.0002	0.0006	0.0014	0	-	-	-	0.0135
CCDC-06	Distance from shore (m)	1	2	3	4	5	6	7	8	9	10	11	12	13	-
	Depth (cm)	16	28	29	27	30	27	26	25	24	23	25	5	0	21.9
	Velocity (m/s)	0.0001	0.0001	0.0001	0.0014	0.0038	0.0703	0.0005	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000	0.0059

Table A-5: Detailed Electrofishing Results, RRM – July 2021.

Waterbody	UTM (NAD 83, 15U)		Date	Length of Run (m)	Output Voltage (v)	Cycle Frequency (Hz)	Pass	Effort (sec)	CPUE	Central Mudminnow	Brook Stickleback	Brook Stickleback YOY	Finescale Dace	NRBD	CYPR YOY	Fathead Minnow	Creek Chub	Creek Chub YOY	Brassy Minnow	Brown Bullhead	White Sucker	Common Shiner	Pearl Dace	Johnny Darter	Total Fish
	Lat	Long																						
Stockpile Pond Diversion Channel	5411368	426771	26-Jul-21	35	200	60	SPDC-EF1	279	215.05	20	5	32	1	0	0	0	1	0	0	0	1	0	0	0	60
							Total	**279**	**215.05**																**60**
Stockpile Pond	5410737	426962	27-Jul-21	350	200	60	SP-EF1	1,505	104.98	18	0	0	0	19	9	58	10	0	0	1	40	2	1	0	158
	5410768	427059	27-Jul-21		200	60	SP-EF2	1,089	42.24	19	0	0	0	0	15	1	9	0	0	0	1	1	0	0	46
	5410795	427121	27-Jul-21		200	60	SP-EF3	2,594	33.15	48	1	0	0	4	8	3	1	20	0	1	0	0	0	0	86
	5410777	427136	27-Jul-21		220	60	SP-EF4	2,356	36.93	31	0	0	0	4	19	4	0	24	0	5	0	0	0	0	87
	5410707	427032	27-Jul-21		220	60	SP-EF5	2,475	26.26	26	0	0	0	7	8	10	3	0	0	3	6	1	1	0	65
							Total	**10,019**	**44.12**																**442**
West Creek Pond Diversion Channel	5410013	422172	25-Jul-21	50	200	60	WCDC-EF1	812	240.15	66	0	24	0	21	17	9	19	0	10	0	8	18	3	0	195
	5410655	422900	25-Jul-21		200	60	WCDC-EF2	256	97.66	6	0	4	1	8	0	1	4	0	0	0	0	1	0	0	25
							Total	**1,068**	**205.99**																**220**
West Creek Pond	5410976	425932	26-Jul-21	200	200	60	WCP-EF1	3,340	30.84	65	4	0	5	0	0	0		0	0	21	0	0	0	8	103
	5410996	425895	27-Jul-21		200	60	WCP-EF2	3,432	34.09	87	2	0	1	0	13	0	0	0	0	0	0	0	1	13	117
	5411059	425807	27-Jul-21		200	60	WCP-EF3	3,252	16.61	35	4	0	0	0	7	0	0	0	1	2	0	0	0	5	54
							Total	**10,024**	**27.33**																**274**
Clark Creek Pond Diversion Channel	5409322	429978	23-Jul-21	250	275	60	CCDC-EF	1,062	55.56	46	5	0	5	1	2	0	0	0	0	0	0	0	0	0	59
							Total	**1,062**	**55.56**																**59**
Clark Creek Pond	5409952	429737	20-Jul-21	315	300	60	CCP-EF1	1,953	87.56	75	32	0	27	0	34	3	0	0	0	0	0	0	0	0	171
	5409997	429620	21-Jul-21		300	60	CCP-EF2	2,068	82.69	27	13	0	110	0	10	11	0	0	0	0	0	0	0	0	171
	5410038	429620	21-Jul-21		300	60	CCP-EF3	2,229	59.67	81	19	0	10	4	11	8	0	0	0	0	0	0	0	0	133
	5410038	429616	21-Jul-21		300	60	CCP-EF4	1,841	68.98	77	31	0	1	4	14	0	0	0	0	0	0	0	0	0	127
	5409930	429632	21-Jul-21		300	60	CCP-EF5	1,910	82.72	101	16	0	30	0	11	0	0	0	0	0	0	0	0	0	158
							Total	**10,001**	**75.99**																**760**

*Catch per unit effort (CPUE) calculated as the number of fish caught per 1000s of efishing effort
YOY - Young of the year; NRBD = Northern Redbelly Dace, CYPR YOY = Unidentified cyprinid YOY

Table A-6: Detailed Minnow Trap Data in Stream Features Results, RRM – July 2021.

Waterbody	Minnow Trap ID	UTM (NAD 83, 15U)		Set Date	Lift Date	Set Time	Lift Time	Traps (#)	Effort (hrs)	CPUE	Central Mudminnow		Brook Stickleback		Finescale Dace		Northern Redbelly Dace		Creek Chub		Brassy Minnow		White Sucker		Common Shiner		Pearl Dace		Johnny Darter		Total Fish
		North	East								Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	
Clark Creek Diversion Channel	CCDC-MT1	5409951	429870	21-Jul-21	22-Jul-21	9:55	15:30	2	59.16	0.52	13	0	13	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	31
	CCDC-MT2	5409632	430134	21-Jul-21	22-Jul-21	10:15	15:10	4	115.68	0.10	6	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
	CCDC-MT3	5409949	429765	21-Jul-21	22-Jul-21	10:30	15:55	1	29.42	0.48	13	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
	CCDC-MT4	5409335	429981	21-Jul-21	22-Jul-21	10:55	14:40	2	55.50	0.20	7	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
	CCDC-MT5	5409376	430038	21-Jul-21	22-Jul-21	11:20	14:25	2	54.16	0.07	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
								Total	**314**	**1.37**	**43**	**0**	**18**	**0**	**9**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**71**
West Creek Diversion Channel	WCDC-MT1	5410200	422519	21-Jul-21	23-Jul-21	16:20	17:10	2	97.66	1.00	2	2	42	7	2	0	19	13	11	7	0	0	0	0	1	1	21	5	0	0	98
	WCDC-MT2	5410466	422811	21-Jul-21	23-Jul-21	16:30	18:10	2	99.34	0.79	0	0	8	0	0	0	53	0	1	0	2	0		0	0	0	13	0	1	0	78
	WCDC-MT3	5410689	422917	21-Jul-21	23-Jul-21	16:40	18:40	2	100.00	1.16	1	1	16	0	1	0	69	0	14	0	4	0	5	0	0	0	6	0	0	0	116
	WCDC-MT4	5410776	422973	21-Jul-21	23-Jul-21	16:45	19:25	2	102.00	0.58	1	0	21	0	0	0	24	0	4	0	5	0	1	0	0	0	3	0	0	0	59
								Total	**399**	**3.53**	**4**	**3**	**87**	**7**	**3**	**0**	**165**	**13**	**30**	**7**	**11**	**0**	**6**	**0**	**1**	**1**	**43**	**5**	**1**	**0**	**351**

Note: Catch per unit effort (CPUE) calculated as the number of fish caught per hour

Table A-7: Detailed Minnow Trap Data in Pond Features Results, RRM – July 2021.

Waterbody	Minnow Trap ID	UTM (NAD 83, 15U)		Set Date	Lift Date	Set Time	Lift Time	Traps (#)	Effort (hrs)	CPUE	Central Mudminnow		Brook Stickleback		Finescale Dace		Northern Redbelly Dace		Fathead Minnow		Creek Chub		Brassy Minnow		Brown Bullhead		White Sucker		Common Shiner		Pearl Dace		Total Fish
		North	East								Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	
Clark Creek Pond	CCP-MT1	5410150	429674	22-Jul-21	24-Jul-21	12:30	9:10	4	178.68	0.51	13	0	27	0	15	0	34	0	3	0	0	0	0	0	0	0	0	0	0	0	0	92
	CCP-MT2	5410112	429665	22-Jul-21	24-Jul-21	12:35	9:20	4	179.00	0.79	5	0	10	0	67	0	55	0	4	0	0	0	0	0	0	0	0	0	0	0	0	141
	CCP-MT3	5410122	429631	22-Jul-21	24-Jul-21	12:45	9:30	4	179.00	0.45	7	0	7	0	35	0	31	0	1	0	0	0	0	0	0	0	0	0	0	0	0	81
	CCP-MT4	5410122	429631	22-Jul-21	24-Jul-21	12:55	10:45	4	183.32	0.39	8	0	13	0	23	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
	CCP-MT5	5409950	429696	22-Jul-21	24-Jul-21	13:00	10:55	4	183.68	0.35	8	0	19	0	24	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
	CCP-MT6	5409942	429664	22-Jul-21	24-Jul-21	13:10	11:00	4	183.32	0.39	6	0	13	0	42	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
	CCP-MT7	5410005	429616	22-Jul-21	24-Jul-21	13:30	7:35	4	168.32	1.16	2	0	29	0	155	0	8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	196
	CCP-MT8	5410034	429613	22-Jul-21	24-Jul-21	13:30	7:50	4	169.32	0.41	6	0	23	0	39	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
	CCP-MT9	5409913	429636	22-Jul-21	24-Jul-21	13:45	8:00	4	169.00	0.22	4	0	7	0	3	0	21	0	1	0	0	0	2	0	0	0	0	0	0	0	0	38
	CCP-MT10	5410093	429616	22-Jul-21	24-Jul-21	14:00	8:15	4	169.00	0.14	10	0	10	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
								Total	**1,763**	**0.48**	**69**	**0**	**158**	**0**	**407**	**0**	**201**	**0**	**11**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**848**
Stockpile Creek Pond	SP-MT1	5410737	426980	24-Jul-21	25-Jul-21	10:45	7:40	3	65.76	2.37	0	0	1	0	0	0	6	0	0	0	31	0	0	0	18	0	0	0	100	0	0	156
	SP-MT2	5410759	426994	24-Jul-21	25-Jul-21	10:50	8:45	3	65.76	2.33	0	0	0	0	0	0	1	0	0	0	5	0	0	0	78	0	1	0	68	0	0	153
	SP-MT3	5410768	427050	24-Jul-21	25-Jul-21	11:00	9:00	3	66.00	4.29	1	0	0	0	0	0	1	0	2	0	35	0	3	0	68	0	1	0	169	0	3	283
	SP-MT4	5410775	427011	24-Jul-21	25-Jul-21	11:05	9:30	3	67.26	1.95	0	0	0	0	0	0	0	0	1	0	9	0	0	0	59	0	0	0	62	0	0	131
	SP-MT5	5410769	427142	24-Jul-21	25-Jul-21	11:30	11:05	3	70.74	2.46	0	0	0	0	0	0	0	0	1	0	10	0	0	0	121	0	0	0	42	0	0	174
	SP-MT6	5410738	427096	24-Jul-21	25-Jul-21	11:30	10:55	3	70.23	2.65	0	0	0	0	0	0	0	0	0	0	9	0	0	0	134	0	1	0	41	0	1	186
	SP-MT7	5410741	427067	24-Jul-21	25-Jul-21	11:45	10:45	3	69.00	4.28	0	0	0	0	0	0	0	0	0	0	5	0	0	0	288	0	0	0	2	0	0	295
	SP-MT8	5410688	427030	24-Jul-21	25-Jul-21	11:45	10:10	3	67.23	3.29	0	0	0	0	0	0	3	0	3	0	37	0	1	0	7	0	1	0	168	0	1	221
	SP-MT1	5410737	426980	25-Jul-21	27-Jul-21	7:45	7:50	3	144.24	0.35	0	0	1	0	0	0	0	1	0	0	13	0	0	0	15	0	0	0	22	0	0	51
	SP-MT2	5410759	426994	25-Jul-21	27-Jul-21	8:50	8:05	3	143.25	0.50	0	0	0	0	0	0	0	0	0	0	2	0	0	0	53	0	0	0	17	0	0	72
	SP-MT3	5410768	427050	25-Jul-21	27-Jul-21	9:05	8:15	3	143.49	0.68	0	0	0	0	0	0	0	0	2	0	17	0	0	0	24	0	0	0	54	0	1	98
	SP-MT4	5410775	427011	25-Jul-21	27-Jul-21	9:35	8:20	3	140.25	0.39	0	0	0	0	0	0	0	0	0	0	2	0	0	0	35	0	0	0	17	0	0	54
	SP-MT5	5410769	427142	25-Jul-21	27-Jul-21	11:05	9:35	3	139.50	0.49	0	0	0	0	0	0	0	0	1	0	2	0	0	0	47	0	0	0	19	0	0	69
	SP-MT6	5410738	427096	25-Jul-21	27-Jul-21	10:55	9:25	3	139.50	0.62	0	0	0	0	0	0	0	0	0	0	1	0	0	0	85	0	1	0	0	0	0	87
	SP-MT7	5410741	427067	25-Jul-21	27-Jul-21	10:45	9:10	3	139.26	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128	0	0	0	1	0	0	129
	SP-MT8	5410688	427030	25-Jul-21	27-Jul-21	10:15	8:40	3	139.26	0.59	0	0	0	0	0	0	0	0	0	0	16	0	0	0	4	0	1	0	61	0	0	82
								Total	**1,671**	**1.34**	**1**	**0**	**2**	**0**	**0**	**0**	**11**	**1**	**10**	**0**	**194**	**0**	**4**	**0**	**1,164**	**0**	**6**	**0**	**843**	**0**	**6**	**0**	**2,241**
West Creek Pond	WCP-MT1	5411046	426027	24-Jul-21	26-Jul-21	13:45	15:30	4	199.00	0.71	5	0	2	0	113	0	3	0	0	0	0	0	0	0	2	0	0	0	0	0	16	0	141
	WCP-MT2	5411002	425998	24-Jul-21	26-Jul-21	14:00	15:15	4	197.00	1.39	2	0	1	0	79	0	7	0	0	0	0	0	0	0	183	0	0	0	0	0	2	0	274
	WCP-MT3	5410949	425984	24-Jul-21	26-Jul-21	14:10	15:00	4	195.32	0.45	6	0	0	0	67	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	88
	WCP-MT4	5410956	425960	24-Jul-21	26-Jul-21	13:40	14:20	4	194.68	1.72	2	0	1	0	7	0	1	0	0	0	1	0	0	0	321	0	0	0	0	0	1	0	334
	WCP-MT5	5410970	425943	24-Jul-21	26-Jul-21	13:50	14:00	4	192.68	0.59	2	0	2	0	32	0	7	0	0	0	0	0	0	0	64	0	0	0	0	0	7	0	114
	WCP-MT6	5411000	425900	24-Jul-21	26-Jul-21	14:00	11:05	4	180.32	1.52	0	0	0	0	157	0	51	0	0	0	4	0	0	0	14	0	0	0	0	0	48	0	274
	WCP-MT7	5411110	425732	24-Jul-21	26-Jul-21	13:45	8:05	4	169.32	1.39	0	0	1	0	175	0	29	0	8	0	16	0	7	0	0	0	0	0	0	0	0	0	236
	WCP-MT8	5411137	425741	24-Jul-21	26-Jul-21	14:00	10:10	4	176.68	0.86	5	0	2	0	90	0	49	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	152
	WCP-MT9	5411148	425705	24-Jul-21	26-Jul-21	14:15	8:00	2	83.50	1.10	1	0	4	0	67	0	8	0	0	0	2	0	1	0	9	0	0	0	0	0	0	0	92
	WCP-MT10	5411131	425746	24-Jul-21	26-Jul-21	14:20	9:45	2	86.84	1.30	0	0	0	0	66	0	38	0	1	0	4	0	1	0	3	0	0	0	0	0	0	0	113
	WCP-MT11	5411164	425753	24-Jul-21	26-Jul-21	14:15	10:40	2	88.84	0.88	4	0	0	0	63	0	10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	78
								Total	**1,764**	**1.07**	**27**	**0**	**13**	**0**	**916**	**0**	**214**	**0**	**9**	**0**	**32**	**0**	**10**	**0**	**597**	**0**	**0**	**0**	**0**	**0**	**78**	**0**	**1,896**

Note: Catch per unit effort (CPUE) calculated as the number of fish caught per hour

Table A-8: Detailed Seine Data in Pond Features Results, RRM – July 2021.

Waterbody	Seine Net ID	UTM (NAD 83, 15U)		Date	Set Time	Area Seined (m2)	CPUE	Central Mudminnow		Brook Stickleback		Finescale Dace		Northern Redbelly Dace		Cyprinid YOY		Fathead Minnow		Creek Chub		Creek Chub YOY		Brassy Minnow		Brown Bullhead		White Sucker		Common Shiner		Pearl Dace		Golden Shiner		Johnny Darter		Total Fish
		North	East					Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	Catch	Mortality	
Clark Creek Pond	CCP-SN1	5410027	429617	27-Jul-21	13:30	75	961	0	0	74	0	25	0	103	0	2	0	505	0	0	0	0	0	11	0	1	0	0	0	0	0	0	0	0	0	0	0	721
	CCP-SN2	5410017	429615	27-Jul-21	14:15	75	1,051	0	0	66	0	20	0	374	0	2	0	326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	788
	CCP-SN3	5410001	429619	27-Jul-21	15:45	75	439	0	0	35	0	5	0	65	0	0	0	220	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	329
	CCP-SN4	5409986	429623	27-Jul-21	16:20	60	1,577	0	0	42	0	6	0	41	0	123	0	726	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	946
	CCP-SN5	5409967	429628	27-Jul-21	17:05	48	379	0	0	2	0	3	0	45	0	0	0	128	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	182
	CCP-SN6	5409958	429627	27-Jul-21	17:30	48	1,935	2	0	5	0	10	0	118	0	0	0	793	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	929
	CCP-SN7	5409942	429632	27-Jul-21	18:05	52	1,408	0	0	2	0	10	0	87	0	0	0	256	0	0	0	0	0	0	0	377	0	0	0	0	0	0	0	0	0	0	0	732
	CCP-SN8	5409930	429633	28-Jul-21	7:45	80	74	0	0	0	0	12	0	25	0	8	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
	CCP-SN9	5409947	429694	28-Jul-21	8:00	120	266	2	0	57	0	29	0	91	0	38	0	68	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	319
	CCP-SN10	5409963	429704	28-Jul-21	8:30	120	249	8	0	27	0	46	0	85	0	17	0	111	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	299
					Total	**753**	**704**	**12**	**0**	**310**	**0**	**166**	**0**	**1,034**	**0**	**190**	**0**	**3,147**	**0**	**0**	**0**	**0**	**0**	**11**	**0**	**434**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5,304**
Stockpile Pond	SP-SN1	5410713	427008	25-Jul-21	14:40	150	105	0	0	0	0	0	0	0	0	20	0	103	0	20	0	1	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	157
	SP-SN2	5410750	427093	25-Jul-21	15:20	70	129	0	0	0	0	0	0	0	0	5	0	42	0	15	0	11	0	0	0	1	0	0	0	0	0	16	0	0	0	0	0	90
	SP-SN3	5410764	427128	25-Jul-21	16:10	150	159	0	0	5	0	0	0	0	0	105	0	0	0	67	0	26	0	30	0	0	0	1	0	3	0	0	0	1	0	0	0	238
	SP-SN4	5410749	426997	25-Jul-21	17:15	120	798	1	0	2	0	0	0	0	0	145	0	353	0	118	0	70	0	0	0	11	0	1	0	12	0	245	0	0	0	0	0	958
	SP-SN5	5410728	426997	26-Jul-21	7:50	150	531	0	0	0	0	0	0	0	0	327	0	235	0	122	0	5	0	1	0	0	0	1	0	0	0	105	0	0	0	0	0	796
	SP-SN6	5410749	426998	26-Jul-21	9:30	75	177	0	0	0	0	0	0	0	0	0	0	84	0	0	0	13	0	31	0	0	0	0	0	1	0	4	0	0	0	0	0	133
	SP-SN7	5410779	427019	26-Jul-21	10:15	80	144	0	0	0	0	0	0	0	0	1	0	0	0	53	0	1	0	0	0	0	0	11	0	4	0	45	0	0	0	0	0	115
	SP-SN8	5410776	427022	26-Jul-21	10:40	100	415	0	0	0	0	0	0	0	0	0	0	195	0	31	0	0	0	150	0	0	0	14	0	11	0	14	0	0	0	0	0	415
	SP-SN9	5410802	427105	26-Jul-21	11:20	80	615	1	0	4	0	0	0	0	0	27	0	270	0	19	0	136	0	0	0	19	0	0	0	2	0	14	0	0	0	0	0	492
	SP-SN10	5410817	427142	27-Jul-21	13:50	150	152	0	0	2	0	0	0	0	0	1	0	103	0	2	0	102	0	0	0	14	0	0	0	0	0	4	0	0	0	0	0	228
					Total	**1,125**	**322**	**2**	**0**	**13**	**0**	**0**	**0**	**0**	**0**	**631**	**0**	**1,385**	**0**	**447**	**0**	**365**	**0**	**212**	**0**	**45**	**0**	**28**	**0**	**33**	**0**	**460**	**0**	**1**	**0**	**0**	**0**	**3,622**
West Creek Pond	WCP-SN1	5410961	425941	24-Jul-21	14:30	100	187	0	0	0	0	0	0	0	0	6	0	177	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187
	WCP-SN2	5411919	425859	24-Jul-21	15:15	100	169	0	0	6	0	0	0	4	0	19	0	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	169
	WCP-SN3	5410970	425952	24-Jul-21	16:45	120	2,810	0	0	0	0	0	0	25	0	17	0	0	0	0	0	0	0	0	0	3330	0	0	0	0	0	0	0	0	0	0	0	3372
	WCP-SN4	5411103	425765	25-Jul-21	8:00	80	68	0	0	0	0	0	0	3	0	9	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
	WCP-SN5	5411131	425721	24-Jul-21	8:40	80	66	0	0	7	0	0	0	6	0	4	0	31	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	53
	WCP-SN6	5411134	425752	25-Jul-21	9:10	130	178	0	0	0	0	0	0	8	0	4	0	213	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	231
	WCP-SN7	5411183	425772	25-Jul-21	9:45	130	132	8	0	12	0	0	0	11	0	0	0	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	171
	WCP-SN8	5411200	425785	25-Jul-21	10:20	150	457	4	0	23	0	0	0	54	0	11	0	123	0	0	0	0	0	0	0	471	0	0	0	0	0	0	0	0	0	0	0	686
	WCP-SN9	5410969	425964	25-Jul-21	12:00	150	265	4	0	2	0	0	0	25	0	5	0	275	0	4	0	0	0	0	0	83	0	0	0	0	0	0	0	0	0	0	0	398
	WCP-SN10	5411098	425985	25-Jul-21	13:20	200	778	0	0	11	0	0	0	14	0	8	0	176	0	0	0	0	0	0	0	1346	0	0	0	0	0	0	0	0	0	0	0	1555
					Total	**1,240**	**555**	**16**	**0**	**61**	**0**	**0**	**0**	**150**	**0**	**83**	**0**	**1,314**	**0**	**15**	**0**	**0**	**0**	**0**	**0**	**5,232**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**0**	**6,876**

Note: Catch per unit effort (CPUE) calculated as the number of fish caught per 100m^2 of seine net

Table A-9: Detailed Fish Measurements for West Creek diversion channel, RRM – July 2021.

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Brassy Minnow	8.7	8.1	5.9	None	R
25-Jul-21	Brassy Minnow	7.7	7.1	4.3	None	R
25-Jul-21	Brassy Minnow	7.4	6.9	3.8	None	R
25-Jul-21	Brassy Minnow	7.7	7.1	4.2	None	R
25-Jul-21	Brassy Minnow	7.2	6.7	3.7	None	R
25-Jul-21	Brassy Minnow	7.8	7.3	4.8	None	R
25-Jul-21	Brassy Minnow	7.1	6.6	3.5	None	R
25-Jul-21	Brassy Minnow	8.2	7.5	5.2	None	R
25-Jul-21	Brassy Minnow	7.2	6.7	3.8	None	R
25-Jul-21	Brassy Minnow	5.5	5.1	1.6	None	R
21-Jul-21	Brassy Minnow	6.1	5.8	2.2	None	R
21-Jul-21	Brassy Minnow	5.5	5.1	1.4	None	R
21-Jul-21	Brassy Minnow	6.0	5.6	2.2	None	R
21-Jul-21	Brassy Minnow	8.1	7.5	4.9	Live	R
21-Jul-21	Brassy Minnow	5.3	5.0	1.3	Live	R
21-Jul-21	Brassy Minnow	4.9	4.6	7.3	Live	R
21-Jul-21	Brassy Minnow	5.2	-	1.3	None	R
21-Jul-21	Brassy Minnow	5.5	5.1	1.6	None	R
21-Jul-21	Brassy Minnow	4.7	4.4	1.0	None	R
21-Jul-21	Brassy Minnow	5.3	4.9	1.3	None	R
21-Jul-21	Brassy Minnow	5.2	4.8	1.4	None	R
25-Jul-21	Brook Stickleback	4.1	-	0.7	None	R
25-Jul-21	Brook Stickleback	3.0	-	0.4	None	R
25-Jul-21	Brook Stickleback	5.0	-	1.2	None	R
25-Jul-21	Brook Stickleback	2.7	-	0.2	None	R
25-Jul-21	Brook Stickleback	5.0	-	1.3	None	R
25-Jul-21	Brook Stickleback	4.5	-	0.8	None	R
25-Jul-21	Brook Stickleback	4.3	-	0.7	None	R
25-Jul-21	Brook Stickleback	2.5	-	0.2	None	R
25-Jul-21	Brook Stickleback	3.0	-	0.3	None	R
25-Jul-21	Brook Stickleback	2.7	-	0.2	None	R
25-Jul-21	Brook Stickleback	3.4	-	0.4	None	R
21-Jul-21	Brook Stickleback	5.8	-	1.2	Dead	M

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Brook Stickleback	5.2	-	1.3	Dead	M
21-Jul-21	Brook Stickleback	5.7	-	7.1	Dead	M
21-Jul-21	Brook Stickleback	5.6	-	2.7	Dead	M
21-Jul-21	Brook Stickleback	5.5	-	2.4	Dead	M
21-Jul-21	Brook Stickleback	4.8	-	1.4	Dead	M
21-Jul-21	Brook Stickleback	4.5	-	0.6	Dead	M
21-Jul-21	Brook Stickleback	3.7	-	0.5	Live	R
21-Jul-21	Brook Stickleback	4.7	-	0.9	Live	R
21-Jul-21	Brook Stickleback	5.2	-	1.4	Live	R
21-Jul-21	Brook Stickleback	4.7	-	0.9	Live	R
21-Jul-21	Brook Stickleback	4.8	-	1.0	Live	R
21-Jul-21	Brook Stickleback	5.1	-	1.2	Live	R
21-Jul-21	Brook Stickleback	4.9	-	1.1	Live	R
21-Jul-21	Brook Stickleback	3.8	-	0.6	Live	R
21-Jul-21	Brook Stickleback	5.2	-	1.2	Live	R
21-Jul-21	Brook Stickleback	4.8	-	1.1	Live	R
21-Jul-21	Brook Stickleback	4.4	-	0.8	Live	R
21-Jul-21	Brook Stickleback	5.2	-	1.3	Live	R
21-Jul-21	Brook Stickleback	3.3	-	0.6	Live	R
21-Jul-21	Brook Stickleback	4.9	-	0.9	Live	R
21-Jul-21	Brook Stickleback	4.9	-	1.0	Live	R
21-Jul-21	Brook Stickleback	2.9	-	0.1	Live	R
21-Jul-21	Brook Stickleback	3.9	-	0.4	Live	R
21-Jul-21	Brook Stickleback	5.8	-	1.2	Live	R
21-Jul-21	Brook Stickleback	5.3	-	1.2	Live	R
21-Jul-21	Brook Stickleback	5.0	-	1.1	Live	R
21-Jul-21	Brook Stickleback	5.0	-	1.1	Live	R
21-Jul-21	Brook Stickleback	4.5	-	0.9	Dead	M
21-Jul-21	Brook Stickleback	5.0	-	1.0	Live	R
21-Jul-21	Brook Stickleback	5.2	-	1.2	Live	R
21-Jul-21	Brook Stickleback	5.2	-	1.1	DEAD	M
21-Jul-21	Brook Stickleback	5.2	-	1.3	DEAD	M
21-Jul-21	Brook Stickleback	5.0	-	1.4	DEAD	M
21-Jul-21	Brook Stickleback	5.8	-	1.5	DEAD	M
21-Jul-21	Brook Stickleback	4.6	-	1.2	DEAD	M

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Brook Stickleback	4.7	-	1.2	DEAD	M
21-Jul-21	Brook Stickleback	4.9	-	1.2	DEAD	M
21-Jul-21	Brook Stickleback	5.2	-	1.3	None	R
21-Jul-21	Brook Stickleback	5.3	-	1.3	None	R
21-Jul-21	Brook Stickleback	5.1	-	1.1	None	R
21-Jul-21	Brook Stickleback	5.2	-	1.6	None	R
21-Jul-21	Brook Stickleback	4.8	-	1.1	None	R
21-Jul-21	Brook Stickleback	4.4	-	0.9	None	R
21-Jul-21	Brook Stickleback	4.9	-	1.4	None	R
21-Jul-21	Brook Stickleback	4.9	-	1.2	None	R
21-Jul-21	Brook Stickleback	4.7	-	1.2	None	R
21-Jul-21	Brook Stickleback	4.8	-	1.1	None	R
21-Jul-21	Brook Stickleback	5.1	-	1.2	None	R
21-Jul-21	Brook Stickleback	4.7	-	1.1	None	R
21-Jul-21	Brook Stickleback	5.0	-	1.5	Live	R
21-Jul-21	Brook Stickleback	4.6	-	1.4	Live	R
21-Jul-21	Brook Stickleback	4.1	-	1.0	Live	R
21-Jul-21	Brook Stickleback	5.3	-	7.6	Live	R
21-Jul-21	Brook Stickleback	5.6	-	1.8	Live	R
21-Jul-21	Brook Stickleback	4.7	-	1.3	Live	R
21-Jul-21	Brook Stickleback	5.2	4.9	1.7	Live	R
21-Jul-21	Brook Stickleback	4.6	-	1.3	None	R
21-Jul-21	Brook Stickleback	5.2	-	1.6	None	R
21-Jul-21	Brook Stickleback	4.7	-	1.0	None	R
21-Jul-21	Brook Stickleback	4.6	-	0.8	None	R
21-Jul-21	Brook Stickleback	4.6	-	1.0	None	R
21-Jul-21	Brook Stickleback	3.4	-	0.7	None	R
21-Jul-21	Brook Stickleback	4.6	-	1.0	None	R
21-Jul-21	Brook Stickleback	5.0	-	1.4	None	R
21-Jul-21	Brook Stickleback	5.3	-	1.6	None	R
21-Jul-21	Brook Stickleback	6.5	-	1.7	None	R
21-Jul-21	Brook Stickleback	5.4	-	1.7	None	R
21-Jul-21	Brook Stickleback	4.8	-	1.0	None	R
21-Jul-21	Brook Stickleback	4.9	-	1.4	None	R
21-Jul-21	Brook Stickleback	5.1	-	1.2	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Brook Stickleback	4.8	-	1.3	None	R
21-Jul-21	Brook Stickleback	4.8	-	1.2	None	R
21-Jul-21	Brook Stickleback	5.5	-	1.6	None	R
21-Jul-21	Brook Stickleback	5.7	-	1.4	None	R
21-Jul-21	Brook Stickleback	4.4	-	1.1	None	R
21-Jul-21	Brook Stickleback	4.6	-	1.0	None	R
21-Jul-21	Brook Stickleback	4.8	-	1.2	None	R
25-Jul-21	Creek Chub	10.4	9.8	9.9	None	R
25-Jul-21	Creek Chub	6.1	5.6	2.5	None	R
25-Jul-21	Creek Chub	11.6	10.8	12.3	None	R
25-Jul-21	Creek Chub	16.7	15.8	47.9	None	R
25-Jul-21	Creek Chub	7.4	6.9	3.8	None	R
25-Jul-21	Creek Chub	10.0	9.5	8.8	None	R
25-Jul-21	Creek Chub	11.7	11.0	14.4	None	R
25-Jul-21	Creek Chub	11.4	10.8	14.3	None	R
25-Jul-21	Creek Chub	14.4	13.6	21.5	None	R
25-Jul-21	Creek Chub	9.2	8.4	6.9	None	R
25-Jul-21	Creek Chub	15.3	14.4	28.7	None	R
25-Jul-21	Creek Chub	14.1	13.2	2.8	None	R
25-Jul-21	Creek Chub	6.9	6.4	2.6	None	R
25-Jul-21	Creek Chub	11.3	10.7	12.9	None	R
25-Jul-21	Creek Chub	13.3	12.7	20.5	None	R
25-Jul-21	Creek Chub	10.0	9.2	9.1	None	R
25-Jul-21	Creek Chub	10.4	9.6	9.8	None	R
25-Jul-21	Creek Chub	11.0	10.3	11.9	None	R
25-Jul-21	Creek Chub	11.2	10.4	11.5	None	R
25-Jul-21	Creek Chub	16.1	15.3	37.7	None	R
25-Jul-21	Creek Chub	12.4	11.7	18.0	None	R
25-Jul-21	Creek Chub	16.5	15.6	41.1	None	R
25-Jul-21	Creek Chub	15.1	14.2	9.3	None	R
21-Jul-21	Creek Chub	11.7	10.1	15.3	DEAD	M
21-Jul-21	Creek Chub	8.5	8.3	6.8	DEAD	M
21-Jul-21	Creek Chub	10.6	10.2	12.4	DEAD	M
21-Jul-21	Creek Chub	8.6	8.2	6.4	DEAD	M
21-Jul-21	Creek Chub	8.8	8.4	6.6	DEAD	M

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Creek Chub	8.9	8.4	6.4	DEAD	M
21-Jul-21	Creek Chub	6.5	6.1	2.5	DEAD	M
21-Jul-21	Creek Chub	6.9	6.5	3.4	None	R
21-Jul-21	Creek Chub	7.5	7.1	4.1	None	R
21-Jul-21	Creek Chub	8.3	7.7	5.5	None	R
21-Jul-21	Creek Chub	8.4	8.0	5.9	None	R
21-Jul-21	Creek Chub	7.7	7.2	4.5	None	R
21-Jul-21	Creek Chub	11.6	11.1	15.4	None	R
21-Jul-21	Creek Chub	12.2	11.6	17.2	None	R
21-Jul-21	Creek Chub	12.7	11.0	19.3	None	R
21-Jul-21	Creek Chub	8.0	7.5	4.9	None	R
21-Jul-21	Creek Chub	8.6	8.1	6.4	Live	R
21-Jul-21	Creek Chub	10.7	10.2	12.5	Live	R
21-Jul-21	Creek Chub	12.8	12.1	19.9	Live	R
21-Jul-21	Creek Chub	12.5	11.6	18.2	Live	R
21-Jul-21	Creek Chub	15.3	14.1	34.0	Live	R
21-Jul-21	Creek Chub	14.1	13.4	30.0	None	R
21-Jul-21	Creek Chub	12.4	11.6	18.7	None	R
21-Jul-21	Creek Chub	12.0	11.5	16.5	None	R
21-Jul-21	Creek Chub	11.5	11.0	18.6	None	R
21-Jul-21	Central Mudminnow	9.1	-	9.0	DEAD	M
21-Jul-21	Central Mudminnow	7.7	-	5.3	DEAD	M
21-Jul-21	Central Mudminnow	11.8	-	22.9	DEAD	M
21-Jul-21	Central Mudminnow	9.7	-	12.3	None	R
25-Jul-21	Common Shiner	5.6	4.9	1.5	None	R
25-Jul-21	Common Shiner	5.1	4.6	1.3	None	R
25-Jul-21	Common Shiner	4.3	3.8	0.4	None	R
25-Jul-21	Common Shiner	5.6	4.9	1.3	None	R
25-Jul-21	Common Shiner	4.2	3.8	0.6	None	R
25-Jul-21	Common Shiner	5.1	4.5	0.8	None	R
25-Jul-21	Common Shiner	5.0	4.5	0.9	None	R
25-Jul-21	Common Shiner	5.0	4.4	0.8	None	R
25-Jul-21	Common Shiner	5.2	4.8	1.1	None	R
25-Jul-21	Common Shiner	4.8	4.4	0.8	None	R
25-Jul-21	Common Shiner	9.7	8.9	7.5	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Common Shiner	4.8	4.3	0.6	None	R
25-Jul-21	Common Shiner	11.4	10.5	14.2	None	R
25-Jul-21	Common Shiner	4.6	4.1	0.5	None	R
25-Jul-21	Common Shiner	8.5	7.7	5.5	None	R
25-Jul-21	Common Shiner	8.2	7.5	4.7	None	R
25-Jul-21	Common Shiner	5.7	5.0	1.9	None	R
25-Jul-21	Common Shiner	5.4	4.9	1.2	None	R
25-Jul-21	Common Shiner	9.4	8.5	8.4	None	R
21-Jul-21	Common Shiner	9.9	9.1	8.5	DEAD	M
25-Jul-21	Fathead Minnow	6.2	5.9	2.7	None	R
25-Jul-21	Fathead Minnow	6.7	6.2	-	None	R
25-Jul-21	Fathead Minnow	7.7	7.4	5.3	None	R
25-Jul-21	Fathead Minnow	7.2	6.6	3.9	None	R
25-Jul-21	Fathead Minnow	7.1	6.7	4.1	None	R
25-Jul-21	Fathead Minnow	6.4	5.9	3.0	None	R
25-Jul-21	Fathead Minnow	7.7	7.1	3.9	None	R
25-Jul-21	Fathead Minnow	6.5	5.9	3.0	None	R
25-Jul-21	Fathead Minnow	5.4	4.9	1.3	None	R
25-Jul-21	Fathead Minnow	7.9	7.4	6.1	None	R
21-Jul-21	Finescale Dace	5.9	5.7	1.9	Live	R
21-Jul-21	Finescale Dace	5.5	5.3	1.3	Live	R
21-Jul-21	Finescale Dace	7.1	6.8	4.2	Live	R
21-Jul-21	Johnny Darter	4.4	4.3	1.0		R
21-Jul-21	Northern Redbelly Dace	4.9	4.7	1.1	Live	R
21-Jul-21	Northern Redbelly Dace	5.5	5.2	7.6	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.2	5.0	7.6	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.3	5.0	7.5	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.0	4.7	1.2	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.3	5.0	1.6	DEAD	M
21-Jul-21	Northern Redbelly Dace	4.9	4.7	1.2	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.4	5.1	1.4	DEAD	M
21-Jul-21	Northern Redbelly Dace	4.9	4.6	1.2	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.2	5.0	1.4	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.1	4.9	1.6	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.4	5.1	1.7	DEAD	M

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Northern Redbelly Dace	5.4	5.1	1.8	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.1	4.8	-	DEAD	M
21-Jul-21	Northern Redbelly Dace	5.4	5.1	1.6	None	R
21-Jul-21	Northern Redbelly Dace	6.1	5.8	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.2	4.8	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.4	5.0	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.0	4.7	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.0	4.7	1.3	None	R
21-Jul-21	Northern Redbelly Dace	5.3	4.9	1.3	None	R
21-Jul-21	Northern Redbelly Dace	5.7	5.4	1.8	None	R
21-Jul-21	Northern Redbelly Dace	5.4	4.9	1.2	None	R
21-Jul-21	Northern Redbelly Dace	4.9	4.6	1.1	None	R
21-Jul-21	Northern Redbelly Dace	5.1	4.7	1.1	None	R
21-Jul-21	Northern Redbelly Dace	5.0	4.7	1.1	None	R
21-Jul-21	Northern Redbelly Dace	5.4	5.1	1.3	None	R
21-Jul-21	Northern Redbelly Dace	5.0	4.7	1.1	None	R
21-Jul-21	Northern Redbelly Dace	5.7	5.4	1.5	None	R
21-Jul-21	Northern Redbelly Dace	4.9	4.6	1.0	None	R
21-Jul-21	Northern Redbelly Dace	5.3	5.0	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.2	4.9	1.5	None	R
21-Jul-21	Northern Redbelly Dace	5.3	5.1	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.1	4.9	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.4	5.1	1.5	None	R
21-Jul-21	Northern Redbelly Dace	4.9	4.6	1.3	None	R
21-Jul-21	Northern Redbelly Dace	5.1	4.8	1.5	None	R
21-Jul-21	Northern Redbelly Dace	5.2	4.9	1.5	None	R
21-Jul-21	Northern Redbelly Dace	5.1	4.8	1.3	None	R
21-Jul-21	Northern Redbelly Dace	5.2	4.8	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.3	4.9	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.2	4.9	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.0	4.7	1.1	None	R
21-Jul-21	Northern Redbelly Dace	5.2	4.8	1.2	None	R
21-Jul-21	Northern Redbelly Dace	5.2	4.8	1.4	None	R
21-Jul-21	Northern Redbelly Dace	5.3	5.0	1.3	None	R
21-Jul-21	Northern Redbelly Dace	5.4	5.1	1.4	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Northern Redbelly Dace	5.0	4.7	1.1	None	R
21-Jul-21	Northern Redbelly Dace	5.5	5.1	1.5	None	R
25-Jul-21	Pearl Dace	9.0	8.4	6.7	None	R
25-Jul-21	Pearl Dace	9.3	8.8	7.2	None	R
25-Jul-21	Pearl Dace	9.7	9.1	7.7	None	R
21-Jul-21	Pearl Dace	10.5	9.9	9.0	Dead	M
21-Jul-21	Pearl Dace	9.8	9.1	7.3	Dead	M
21-Jul-21	Pearl Dace	10.6	10.0	5.2	Dead	M
21-Jul-21	Pearl Dace	9.5	8.9	13.1	Dead	M
21-Jul-21	Pearl Dace	8.3	7.8	12.3	Dead	M
21-Jul-21	Pearl Dace	10.7	9.9	9.7	Live	R
21-Jul-21	Pearl Dace	11.1	10.5	11.0	Live	R
21-Jul-21	Pearl Dace	7.1	6.7	-	Live	R
21-Jul-21	Pearl Dace	8.9	8.5	5.5	Live	R
21-Jul-21	Pearl Dace	7.5	7.1	3.2	Live	R
21-Jul-21	Pearl Dace	6.7	6.4	2.4	Live	R
21-Jul-21	Pearl Dace	7.7	7.3	3.6	Live	R
21-Jul-21	Pearl Dace	6.7	6.4	2.6	Live	R
21-Jul-21	Pearl Dace	7.1	6.9	-	Live	R
21-Jul-21	Pearl Dace	8.7	8.3	6.1	Live	R
21-Jul-21	Pearl Dace	9.9	9.4	8.7	Live	R
21-Jul-21	Pearl Dace	9.7	8.0	6.2	Live	R
21-Jul-21	Pearl Dace	7.8	7.4	4.3	Live	R
21-Jul-21	Pearl Dace	9.1	8.5	6.3	Live	R
21-Jul-21	Pearl Dace	8.2	7.7	4.5	Live	R
21-Jul-21	Pearl Dace	6.9	6.5	2.6	Live	R
21-Jul-21	Pearl Dace	7.0	6.6	2.9	None	R
21-Jul-21	Pearl Dace	7.4	7.0	-	None	R
21-Jul-21	Pearl Dace	5.6	4.7	1.5	None	R
21-Jul-21	Pearl Dace	7.1	6.6	2.1	None	R
21-Jul-21	Pearl Dace	7.3	6.9	3.7	None	R
21-Jul-21	Pearl Dace	7.1	6.8	4.3	None	R
21-Jul-21	Pearl Dace	6.8	6.4	3.0	None	R
21-Jul-21	Pearl Dace	6.8	6.4	3.2	None	R
21-Jul-21	Pearl Dace	5.7	5.4	1.7	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Pearl Dace	7.1	6.8	3.2	None	R
21-Jul-21	Pearl Dace	6.6	6.1	2.5	None	R
21-Jul-21	Pearl Dace	7.0	6.0	2.8	None	R
21-Jul-21	Pearl Dace	6.6	6.3	2.7	None	R
21-Jul-21	Pearl Dace	9.9	9.3	9.5	None	R
21-Jul-21	Pearl Dace	10.5	9.9	11.3	None	R
21-Jul-21	Pearl Dace	10.1	9.5	9.6	Live	R
21-Jul-21	Pearl Dace	11.1	10.7	13.1	Live	R
21-Jul-21	Pearl Dace	10.6	10.0	11.0	Live	R
21-Jul-21	Pearl Dace	9.0	8.4	7.5	Live	R
21-Jul-21	Pearl Dace	9.4	8.8	7.6	None	R
21-Jul-21	Pearl Dace	10.4	9.6	10.0	None	R
25-Jul-21	White Sucker	14.2	13.3	25.9	None	R
25-Jul-21	White Sucker	9.8	9.3	9.5	None	R
25-Jul-21	White Sucker	15.2	14.4	35.0	None	R
25-Jul-21	White Sucker	13.2	12.4	21.5	None	R
25-Jul-21	White Sucker	15.7	14.7	35.5	None	R
25-Jul-21	White Sucker	14.9	14.0	29.7	None	R
25-Jul-21	White Sucker	10.2	9.4	9.5	None	R
25-Jul-21	White Sucker	9.7	9.2	8.0	None	R
21-Jul-21	White Sucker	10.5	10.2	11.2	None	R
21-Jul-21	White Sucker	10.0	9.6	9.9	None	R
21-Jul-21	White Sucker	10.7	10.2	11.6	Live	R
21-Jul-21	White Sucker	10.0	9.6	9.2	Live	R
21-Jul-21	White Sucker	9.6	9.4	9.2	Live	R
21-Jul-21	White Sucker	11.1	10.7	12.8	None	R

Table A-10: Detailed Fish Measurements for Clark Creek diversion channel, RRM – July 2021.

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
22-Jul-21	Brassy Minnow	4.3	4.0	0.7	None	R
22-Jul-21	Brook Stickleback	5.1	-	1.2	None	R
22-Jul-21	Brook Stickleback	5.7	-	1.8	None	R
22-Jul-21	Brook Stickleback	4.8	-	0.8	None	R
22-Jul-21	Brook Stickleback	3.9	-	0.6	None	R
22-Jul-21	Brook Stickleback	4.8	-	1.0	None	R
22-Jul-21	Brook Stickleback	5.1	-	1.4	None	R
22-Jul-21	Brook Stickleback	5.2	-	1.2	None	R
22-Jul-21	Brook Stickleback	4.2	-	0.7	None	R
22-Jul-21	Brook Stickleback	4.0	-	0.6	None	R
22-Jul-21	Brook Stickleback	5.4	-	1.5	None	R
22-Jul-21	Brook Stickleback	5.1	-	1.1	None	R
22-Jul-21	Brook Stickleback	4.0	-	0.6	None	R
22-Jul-21	Brook Stickleback	4.2	-	0.7	None	R
22-Jul-21	Brook Stickleback	4.8	-	1.0	None	R
22-Jul-21	Brook Stickleback	3.8	-	0.5	None	R
22-Jul-21	Brook Stickleback	3.5	-	0.5	None	R
22-Jul-21	Brook Stickleback	5.4	-	1.5	None	R
22-Jul-21	Brook Stickleback	4.2	-	0.8	None	R
22-Jul-21	Brook Stickleback	4.5	-	1.0	None	R
22-Jul-21	Brook Stickleback	2.6	-	0.2	None	R
22-Jul-21	Brook Stickleback	3.7	-	0.6	None	R
22-Jul-21	Brook Stickleback	3.8	-	0.7	None	R
22-Jul-21	Brook Stickleback	2.4	-	0.2	None	R
22-Jul-21	Central Mudminnow	10.5	-	11.5	None	R
22-Jul-21	Central Mudminnow	9.4	-	9.3	None	R
22-Jul-21	Central Mudminnow	4.7	-	1.4	None	R
22-Jul-21	Central Mudminnow	10.1	-	12.2	None	R
22-Jul-21	Central Mudminnow	6.7	-	3.0	black spots	R
22-Jul-21	Central Mudminnow	7.7	-	4.8	pictures of black spot	R
22-Jul-21	Central Mudminnow	7.3	-	4.7	None	R
22-Jul-21	Central Mudminnow	4.7	-	1.6	(black spot) scoliosis	R
22-Jul-21	Central Mudminnow	5.7	-	2.5	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
22-Jul-21	Central Mudminnow	5.3	-	1.8	None	R
22-Jul-21	Central Mudminnow	6.9	-	3.7	None	R
22-Jul-21	Central Mudminnow	5.4	-	1.9	black spot	R
22-Jul-21	Central Mudminnow	8.6	-	7.0	None	R
22-Jul-21	Central Mudminnow	8.2	-	6.5	None	R
22-Jul-21	Central Mudminnow	7.3	-	4.6	None	R
22-Jul-21	Central Mudminnow	7.4	-	4.7	None	R
22-Jul-21	Central Mudminnow	7.1	-	4.2	None	R
22-Jul-21	Central Mudminnow	7.7	-	4.9	None	R
22-Jul-21	Central Mudminnow	5.6	-	2.3	None	R
22-Jul-21	Central Mudminnow	10.2	-	12.5	None	R
22-Jul-21	Central Mudminnow	9.9	-	12.3	None	R
22-Jul-21	Central Mudminnow	9.0	-	7.9	None	R
22-Jul-21	Central Mudminnow	8.6	-	6.9	None	R
22-Jul-21	Central Mudminnow	10.7	-	14.3	None	R
22-Jul-21	Central Mudminnow	9.0	-	8.7	None	R
22-Jul-21	Central Mudminnow	9.1	-	8.8	None	R
22-Jul-21	Central Mudminnow	9.1	-	7.8	None	R
22-Jul-21	Central Mudminnow	11.0	-	15.2	None	R
22-Jul-21	Central Mudminnow	9.7	-	10.3	None	R
22-Jul-21	Central Mudminnow	5.8	-	2.7	None	R
22-Jul-21	Central Mudminnow	6.5	-	3.3	None	R
22-Jul-21	Central Mudminnow	10.3	-	10.3	None	R
22-Jul-21	Central Mudminnow	8.0	-	5.6	None	R
22-Jul-21	Central Mudminnow	11.6	-	16.7	None	R
22-Jul-21	Central Mudminnow	9.6	-	10.6	None	R
22-Jul-21	Central Mudminnow	8.0	-	6.6	None	R
22-Jul-21	Central Mudminnow	11.4	-	17.7	None	R
22-Jul-21	Central Mudminnow	8.1	-	6.6	Growth on side	R
22-Jul-21	Central Mudminnow	8.4	-	6.0	None	R
22-Jul-21	Central Mudminnow	9.0	-	7.8	Growth on caudal peduncle	R
22-Jul-21	Central Mudminnow	9.3	-	8.5	None	R
22-Jul-21	Central Mudminnow	9.5	-	9.0	None	R
22-Jul-21	Central Mudminnow	8.8	-	7.6	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
22-Jul-21	Central Mudminnow	2.4	-	0.2	None	R
22-Jul-21	Central Mudminnow	2.4	-	0.2	None	R
22-Jul-21	Central Mudminnow	2.4	-	0.2	None	R
22-Jul-21	Central Mudminnow	5.1	-	1.5	None	R
22-Jul-21	Central Mudminnow	2.2	-	0.1	None	R
22-Jul-21	Central Mudminnow	2.4	-	0.1	None	R
22-Jul-21	Central Mudminnow	6.5	-	2.9	None	R
22-Jul-21	Central Mudminnow	6.3	-	2.9	None	R
22-Jul-21	Central Mudminnow	9.9	-	11.7	None	R
22-Jul-21	Central Mudminnow	8.9	-	7.9	None	R
22-Jul-21	Central Mudminnow	7.9	-	6.1	None	R
22-Jul-21	Central Mudminnow	7.9	-	5.2	None	R
22-Jul-21	Central Mudminnow	7.0	-	3.8	None	R
22-Jul-21	Central Mudminnow	7.0	-	3.7	None	R
22-Jul-21	Central Mudminnow	2.3	-	0.1	None	R
22-Jul-21	Central Mudminnow	7.1	-	3.8	None	R
22-Jul-21	Central Mudminnow	7.5	-	5.3	None	R
22-Jul-21	Central Mudminnow	5.3	-	1.7	None	R
22-Jul-21	Central Mudminnow	5.4	-	1.7	None	R
22-Jul-21	Central Mudminnow	8.2	-	7.3	None	R
22-Jul-21	Central Mudminnow	8.3	-	6.8	None	R
22-Jul-21	Central Mudminnow	9.4	-	10.8	None	R
22-Jul-21	Central Mudminnow	8.2	-	6.5	None	R
22-Jul-21	Central Mudminnow	7.4	-	4.7	None	R
22-Jul-21	Central Mudminnow	9.4	-		None	R
22-Jul-21	Central Mudminnow	7.7	-	5.7	None	R
22-Jul-21	Central Mudminnow	10.1	-	12.2	None	R
22-Jul-21	Central Mudminnow	6.9	-	3.9	None	R
22-Jul-21	Central Mudminnow	8.5	-	8.1	None	R
22-Jul-21	Central Mudminnow	6.6	-	4.3	None	R
22-Jul-21	Central Mudminnow	6.2	-	3.0	None	R
22-Jul-21	Central Mudminnow	7.6	-	5.9	None	R
22-Jul-21	Central Mudminnow	6.7	-	4.0	None	R
22-Jul-21	Central Mudminnow	5.0	-	1.7	None	R
22-Jul-21	Central Mudminnow	10.7	-	15.6	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
22-Jul-21	Central Mudminnow	7.6	-	5.6	None	R
22-Jul-21	Central Mudminnow	7.4	-	4.7	None	R
22-Jul-21	Central Mudminnow	7.0	-	4.8	None	R
22-Jul-21	Central Mudminnow	6.5	-	1.9	None	R
22-Jul-21	Central Mudminnow	11.5	-	20.0	None	R
22-Jul-21	Finescale Dace	4.3	4.0	0.9	None	R
22-Jul-21	Finescale Dace	4.6	4.4	1.0	None	R
22-Jul-21	Finescale Dace	4.8	4.5	1.0	None	R
22-Jul-21	Finescale Dace	4.4	4.1	0.9	None	R
22-Jul-21	Finescale Dace	4.3	4.0	0.8	None	R
22-Jul-21	Finescale Dace	9.6	9.0	8.6	None	R
22-Jul-21	Finescale Dace	9.7	9.1	9.6	None	R
22-Jul-21	Finescale Dace	9.7	9.2	10.6	None	R
22-Jul-21	Finescale Dace	4.7	4.4	1.0	None	R
22-Jul-21	Finescale Dace	4.7	4.4	1.1	None	R
22-Jul-21	Finescale Dace	9.5	8.9	8.5	None	R
22-Jul-21	Finescale Dace	9.4	8.9	9.1	None	R
22-Jul-21	Finescale Dace	9.9	9.4	10.2	None	R
22-Jul-21	Finescale Dace	9.6	9.0	10.3	None	R
22-Jul-21	Northern Redbelly Dace	3.2	2.9		None	R

Table A-11: Detailed Fish Measurements for Stockpile Pond, RRM – July 2021.

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Brown Bullhead	4.4	4.1	0.8	None	R
25-Jul-21	Brown Bullhead	4.1	3.7	0.7	None	R
25-Jul-21	Brown Bullhead	10.6	-	17.1	None	R
25-Jul-21	Brown Bullhead	11.7	-	19.7	None	R
25-Jul-21	Brown Bullhead	8.9	-	10.4	None	R
25-Jul-21	Brown Bullhead	10.7	-	16.0	None	R
25-Jul-21	Brown Bullhead	9.8	-	10.6	None	R
25-Jul-21	Brown Bullhead	10.0	-	12.0	None	R
25-Jul-21	Brown Bullhead	7.1	-	4.6	None	R
25-Jul-21	Brown Bullhead	11.0	-	17.8	None	R
25-Jul-21	Brown Bullhead	7.5	-	5.7	None	R
25-Jul-21	Brown Bullhead	9.1	-	9.2	None	R
25-Jul-21	Brown Bullhead	9.7	-	10.5	None	R
25-Jul-21	Brown Bullhead	9.3	-	9.3	None	R
25-Jul-21	Brown Bullhead	9.2	-	8.8	None	R
25-Jul-21	Brown Bullhead	9.5	-	11.2	None	R
25-Jul-21	Brown Bullhead	10.7	-	17.3	None	R
25-Jul-21	Brown Bullhead	9.9	-	13.6	None	R
25-Jul-21	Brown Bullhead	11.5	-	22.3	None	R
25-Jul-21	Brown Bullhead	11.1	-	14.5	None	R
25-Jul-21	Brown Bullhead	11.1	-	29.4	None	R
25-Jul-21	Brown Bullhead	7.3	-	4.6	None	R
25-Jul-21	Brown Bullhead	10.1	-	13.3	None	R
25-Jul-21	Brown Bullhead	9.2	-	9.3	None	R
25-Jul-21	Brown Bullhead	7.0	-	4.2	None	R
25-Jul-21	Brown Bullhead	9.8	-	14.3	None	R
25-Jul-21	Brown Bullhead	8.9	-	10.7	None	R
25-Jul-21	Brown Bullhead	9.8	-	12.5	None	R
25-Jul-21	Brown Bullhead	10.9	-	18.3	None	R
25-Jul-21	Brown Bullhead	10.4	-	14.5	None	R
25-Jul-21	Brown Bullhead	9.0	-	8.3	None	R
25-Jul-21	Brown Bullhead	11.0	-	20.6	None	R
25-Jul-21	Brown Bullhead	9.9	-	12.6	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Brown Bullhead	9.5	-	9.9	None	R
25-Jul-21	Brown Bullhead	9.3	-	10.6	None	R
25-Jul-21	Brown Bullhead	16.0	-	57.3	None	R
25-Jul-21	Brown Bullhead	11.1	-	18.7	None	R
25-Jul-21	Brown Bullhead	9.2	-	9.0	None	R
25-Jul-21	Brown Bullhead	11.0	-	15.0	None	R
25-Jul-21	Brown Bullhead	11.4	-	21.9	None	R
25-Jul-21	Brown Bullhead	9.2	-	9.2	None	R
25-Jul-21	Brown Bullhead	12.3	-	24.1	None	R
25-Jul-21	Brown Bullhead	13.4	-	29.7	None	R
25-Jul-21	Brown Bullhead	16.0	-	41.5	None	R
25-Jul-21	Brown Bullhead	5.5	5.1	-	None	R
25-Jul-21	Brown Bullhead	3.6	3.3	-	None	R
25-Jul-21	Brown Bullhead	8.9	8.3	-	None	R
25-Jul-21	Brown Bullhead	8.4	7.9	-	None	R
25-Jul-21	Brown Bullhead	7.1	6.8	-	None	R
25-Jul-21	Brown Bullhead	8.4	7.9	-	None	R
25-Jul-21	Brown Bullhead	7.8	7.4	-	None	R
25-Jul-21	Brown Bullhead	8.7	8.1	-	None	R
25-Jul-21	Brown Bullhead	7.5	7.0	-	None	R
25-Jul-21	Brown Bullhead	7.6	7.1	-	None	R
25-Jul-21	Brown Bullhead	6.5	4.2	-	None	R
25-Jul-21	Brown Bullhead	5.1	4.8	-	None	R
25-Jul-21	Brown Bullhead	4.2	3.9	-	None	R
25-Jul-21	Brown Bullhead	4.5	4.2	-	None	R
25-Jul-21	Brown Bullhead	4.6	4.3	-	None	R
25-Jul-21	Brown Bullhead	4.6	4.3	-	None	R
25-Jul-21	Brown Bullhead	4.6	4.3	-	None	R
25-Jul-21	Brown Bullhead	4.5	4.2	-	None	R
25-Jul-21	Brown Bullhead	4.4	4.1	-	None	R
25-Jul-21	Brown Bullhead	4.9	4.6	-	None	R
25-Jul-21	Brown Bullhead	4.5	4.2	-	None	R
25-Jul-21	Brown Bullhead	4.9	4.4	-	None	R
25-Jul-21	Brown Bullhead	5.0	4.7	-	None	R
25-Jul-21	Brown Bullhead	4.9	4.6	-	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Brown Bullhead	4.6	4.3	-	None	R
25-Jul-21	Brown Bullhead	4.6	4.3	-	None	R
25-Jul-21	Brassy Minnow	5.8	5.4	1.7	None	R
25-Jul-21	Brassy Minnow	5.8	5.3	1.7	None	R
25-Jul-21	Brassy Minnow	5.7	5.3	1.3	None	R
25-Jul-21	Brassy Minnow	6.1	5.7	2.5	None	R
25-Jul-21	Brassy Minnow	5.1	4.8	-	None	R
25-Jul-21	Brassy Minnow	5.1	4.7	-	None	R
25-Jul-21	Brassy Minnow	3.6	3.4	-	None	R
25-Jul-21	Brassy Minnow	4.4	4.2	-	None	R
25-Jul-21	Brassy Minnow	4.6	4.4	-	None	R
25-Jul-21	Brassy Minnow	3.5	3.3	-	None	R
25-Jul-21	Brassy Minnow	3.6	3.4	-	None	R
25-Jul-21	Brassy Minnow	4.2	3.9	-	None	R
25-Jul-21	Brassy Minnow	4.8	4.5	-	None	R
25-Jul-21	Brook Stickleback	4.1	-	0.6	None	R
27-Jul-21	Brook Stickleback	6.0	-	1.8	None	R
27-Jul-21	Brook Stickleback	4.4	-	-	None	R
27-Jul-21	Brook Stickleback	3.6	-	-	None	R
27-Jul-21	Brook Stickleback	5.9	-	-	No Scale	R
27-Jul-21	Brook Stickleback	4.3	-	-	None	R
27-Jul-21	Brook Stickleback	5.8	-	-	None	R
27-Jul-21	Brook Stickleback	4.4	-	-	None	R
27-Jul-21	Brook Stickleback	4.2	-	-	None	R
27-Jul-21	Brook Stickleback	5.4	-	-	3	R
27-Jul-21	Creek Chub	20.8	20.0	66.4	None	R
27-Jul-21	Creek Chub	19.6	18.7	75.8	None	R
25-Jul-21	Creek Chub	7.0	6.4	3.4	None	R
25-Jul-21	Creek Chub	14.0	13.1	27.4	None	R
25-Jul-21	Creek Chub	10.7	10.0	12.4	None	R
25-Jul-21	Creek Chub	11.6	10.8	16.3	None	R
25-Jul-21	Creek Chub	8.8	8.2	6.8	None	R
25-Jul-21	Creek Chub	10.2	9.5	11.2	None	R
25-Jul-21	Creek Chub	9.7	9.2	9.3	None	R
25-Jul-21	Creek Chub	9.0	8.2	6.3	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Creek Chub	10.5	9.6	6.8	None	R
25-Jul-21	Creek Chub	10.1	9.4	10.1	None	R
25-Jul-21	Creek Chub	9.4	8.8	8.1	None	R
25-Jul-21	Creek Chub	17.0	16.1	49.7	None	R
25-Jul-21	Creek Chub	12.5	11.8	19.6	Blackspot	R
25-Jul-21	Creek Chub	17.3	16.4	51.0	None	R
25-Jul-21	Creek Chub	10.3	9.4	10.9	None	R
25-Jul-21	Creek Chub	9.6	9.0	9.2	None	R
25-Jul-21	Creek Chub	8.1	7.5	4.6	None	R
25-Jul-21	Creek Chub	10.7	10.0	12.2	None	R
27-Jul-21	Creek Chub	8.9	8.4	6.3	None	R
25-Jul-21	Creek Chub	11.6	10.9	14.0	None	R
25-Jul-21	Creek Chub	14.7	13.8	30.4	None	R
25-Jul-21	Creek Chub	8.9	8.3	6.3	None	R
25-Jul-21	Creek Chub	8.9	8.3	6.7	None	R
25-Jul-21	Creek Chub	6.8	6.4	3.2	None	R
25-Jul-21	Creek Chub	6.6	6.1	2.4	None	R
25-Jul-21	Creek Chub	5.7	5.2	1.6	None	R
25-Jul-21	Creek Chub	7.2	6.7	3.5	None	R
25-Jul-21	Creek Chub	8.3	7.8	5.8	None	R
25-Jul-21	Creek Chub	7.8	7.4	4.2	None	R
25-Jul-21	Creek Chub	6.2	5.8	2.4	None	R
25-Jul-21	Creek Chub	6.9	6.4	3.0	None	R
25-Jul-21	Creek Chub	4.6	4.2	0.8	None	R
25-Jul-21	Creek Chub	16.6	15.3	42.1	None	R
25-Jul-21	Creek Chub	7.2	6.7	3.5	None	R
25-Jul-21	Creek Chub	10.2	9.5	9.8	None	R
25-Jul-21	Creek Chub	9.3	8.7	7.4	None	R
25-Jul-21	Creek Chub	9.2	8.4	7.1	None	R
25-Jul-21	Creek Chub	10.3	9.6	10.1	None	R
25-Jul-21	Creek Chub	12.8	12.1	20.0	None	R
25-Jul-21	Creek Chub	7.8	7.3	4.7	None	R
25-Jul-21	Creek Chub	7.1	6.4	2.9	None	R
25-Jul-21	Creek Chub	16.7	15.9	-	No Scale	R
25-Jul-21	Creek Chub	4.5	4.2	-	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Creek Chub	4.4	4.0	-	None	R
25-Jul-21	Creek Chub	4.5	4.3	-	None	R
25-Jul-21	Creek Chub	7.9	7.5	-	None	R
25-Jul-21	Creek Chub	6.1	5.8	-	None	R
25-Jul-21	Creek Chub	4.1	3.9	-	None	R
25-Jul-21	Creek Chub	4.1	3.8	-	None	R
25-Jul-21	Creek Chub	4.3	4.1	-	None	R
25-Jul-21	Creek Chub	4.1	3.9	-	None	R
25-Jul-21	Creek Chub	4.1	3.9	-	None	R
25-Jul-21	Creek Chub	6.2	4.0	-	None	R
25-Jul-21	Creek Chub	6.2	6.0	-	None	R
25-Jul-21	Creek Chub	4.0	3.8	-	None	R
25-Jul-21	Creek Chub	4.0	3.8	-	None	R
25-Jul-21	Creek Chub	4.3	4.1	-	None	R
25-Jul-21	Creek Chub	4.6	4.3	-	None	R
25-Jul-21	Creek Chub	4.7	4.4	-	None	R
25-Jul-21	Creek Chub	4.6	4.4	-	None	R
27-Jul-21	Central Mudminnow	5.7	-	2.3	None	R
27-Jul-21	Central Mudminnow	6.3	-	2.8	None	R
27-Jul-21	Central Mudminnow	5.8	-	2.0	None	R
27-Jul-21	Central Mudminnow	6.0	-	2.1	None	R
27-Jul-21	Central Mudminnow	5.9	-	2.0	None	R
27-Jul-21	Central Mudminnow	7.0	-	3.9	None	R
27-Jul-21	Central Mudminnow	5.7	-	2.1	None	R
27-Jul-21	Central Mudminnow	5.7	-	1.9	None	R
27-Jul-21	Central Mudminnow	5.6	-	1.9	None	R
27-Jul-21	Central Mudminnow	6.0	-	2.4	None	R
27-Jul-21	Central Mudminnow	6.4	-	2.8	None	R
27-Jul-21	Central Mudminnow	5.6	-	1.9	None	R
27-Jul-21	Central Mudminnow	5.7	-	2.3	None	R
27-Jul-21	Central Mudminnow	6.2	-	2.6	None	R
27-Jul-21	Central Mudminnow	6.7	-	3.2	None	R
27-Jul-21	Central Mudminnow	6.1	-	2.3	None	R
27-Jul-21	Central Mudminnow	6.8	-	3.3	None	R
27-Jul-21	Central Mudminnow	8.6	-	5.6	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
27-Jul-21	Central Mudminnow	5.9	-	2.9	None	R
27-Jul-21	Central Mudminnow	6.1	-	3.2	None	R
27-Jul-21	Central Mudminnow	10.5	-	13.6	None	R
27-Jul-21	Central Mudminnow	7.4	-	4.0	None	R
27-Jul-21	Central Mudminnow	8.1	-	5.7	None	R
27-Jul-21	Central Mudminnow	9.6	-	10.7	None	R
27-Jul-21	Central Mudminnow	7.1	-	4.0	None	R
27-Jul-21	Central Mudminnow	7.4	-	4.2	None	R
27-Jul-21	Central Mudminnow	7.6	-	4.6	None	R
27-Jul-21	Central Mudminnow	6.9	-	3.9	None	R
27-Jul-21	Central Mudminnow	6.2	-	3.1	None	R
27-Jul-21	Central Mudminnow	8.1	-	5.8	None	R
27-Jul-21	Central Mudminnow	6.2	-	3.1	None	R
27-Jul-21	Central Mudminnow	6.6	-	3.0	None	R
27-Jul-21	Central Mudminnow	6.4	-	3.4	None	R
27-Jul-21	Central Mudminnow	6.1	-	2.9	None	R
27-Jul-21	Central Mudminnow	8.5	-	5.8	None	R
27-Jul-21	Central Mudminnow	8.7	-	5.6	None	R
27-Jul-21	Central Mudminnow	7.1	-	4.4	None	R
27-Jul-21	Central Mudminnow	5.8	-	2.1	None	R
27-Jul-21	Central Mudminnow	6.5	-	3.0	None	R
25-Jul-21	Central Mudminnow	7.6	-	4.9	None	R
25-Jul-21	Central Mudminnow	6.4	-	-	14	R
25-Jul-21	Common Shiner	6.2	5.0	5.7	None	R
25-Jul-21	Common Shiner	7.7	7.1	2.9	None	R
25-Jul-21	Common Shiner	6.8	6.2	2.3	None	R
25-Jul-21	Common Shiner	8.1	7.3	3.9	None	R
25-Jul-21	Common Shiner	6.8	6.1	2.2	None	R
25-Jul-21	Common Shiner	8.8	7.9	5.7	None	R
25-Jul-21	Common Shiner	7.8	7.1	3.4	None	R
25-Jul-21	Common Shiner	9.9	9.0	7.3	None	R
25-Jul-21	Common Shiner	9.0	8.3	5.9	None	R
25-Jul-21	Common Shiner	8.4	7.7	4.2	None	R
25-Jul-21	Common Shiner	7.1	6.4	2.5	None	R
25-Jul-21	Common Shiner	12.9	11.8	17.5	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Common Shiner	10.1	9.1	7.0	None	R
25-Jul-21	Common Shiner	8.9	8.1	5.8	None	R
25-Jul-21	Common Shiner	8.6	7.8	4.0	None	R
25-Jul-21	Common Shiner	9.4	8.5	6.3	None	R
25-Jul-21	Common Shiner	7.5	6.7	2.7	None	R
25-Jul-21	Common Shiner	7.2	6.4	2.5	None	R
25-Jul-21	Common Shiner	8.7	7.9	5.0	None	R
25-Jul-21	Common Shiner	8.9	8.0	4.9	None	R
25-Jul-21	Common Shiner	9.3	8.6	5.4	None	R
25-Jul-21	Common Shiner	8.2	7.7	4.5	None	R
25-Jul-21	Common Shiner	9.0	8.2	6.3	None	R
25-Jul-21	Common Shiner	7.5	6.7	2.7	None	R
25-Jul-21	Common Shiner	5.7	5.2	1.4	None	R
25-Jul-21	Common Shiner	8.1	7.4	3.5	None	R
25-Jul-21	Common Shiner	7.4	6.1	2.6	None	R
25-Jul-21	Common Shiner	7.5	6.7	2.8	None	R
25-Jul-21	Common Shiner	7.1	6.4	2.5	None	R
25-Jul-21	Common Shiner	8.2	7.3	3.7	None	R
25-Jul-21	Common Shiner	6.4	5.7	1.7	None	R
25-Jul-21	Common Shiner	9.5	8.4	5.7	None	R
25-Jul-21	Common Shiner	8.3	7.4	3.3	None	R
25-Jul-21	Common Shiner	9.1	8.1	5.3	None	R
25-Jul-21	Common Shiner	8.3	7.4	4.3	None	R
25-Jul-21	Common Shiner	7.4	6.5	2.8	None	R
25-Jul-21	Common Shiner	7.6	6.8	2.7	None	R
25-Jul-21	Common Shiner	7.7	6.9	2.9	None	R
25-Jul-21	Common Shiner	10.2	9.3	8.5	None	R
25-Jul-21	Common Shiner	6.7	6.0	2.4	None	R
25-Jul-21	Common Shiner	9.3	8.6	5.5	None	R
25-Jul-21	Common Shiner	6.8	6.2	2.5	None	R
25-Jul-21	Common Shiner	10.4	9.4	7.8	None	R
25-Jul-21	Common Shiner	12.8	11.7	15.1	None	R
25-Jul-21	Common Shiner	13.4	12.4	16.1	Black spot	R
25-Jul-21	Common Shiner	13.5	12.3	28.3	None	R
25-Jul-21	Common Shiner	13.9	12.7	23.0	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Common Shiner	14.2	12.9	23.7	None	R
25-Jul-21	Common Shiner	13.0	11.9	14.8	None	R
25-Jul-21	Common Shiner	12.2	11.0	11.8	None	R
25-Jul-21	Common Shiner	13.3	12.1	14.5	None	R
25-Jul-21	Common Shiner	13.8	12.3	20.2	None	R
25-Jul-21	Common Shiner	13.4	12.2	17.4	None	R
25-Jul-21	Common Shiner	17.0	15.5	-	None	R
27-Jul-21	Fathead Minnow	6.6	6.1	3.3	None	R
27-Jul-21	Fathead Minnow	7.0	6.5	3.3	Black spot	R
27-Jul-21	Fathead Minnow	7.2	6.7	4.1	None	R
27-Jul-21	Fathead Minnow	6.6	6.2	3.4	None	R
27-Jul-21	Fathead Minnow	7.2	6.7	4.1	None	R
27-Jul-21	Fathead Minnow	5.8	5.4	2.5	None	R
27-Jul-21	Fathead Minnow	5.8	5.5	2.4	None	R
27-Jul-21	Fathead Minnow	5.4	4.9	1.7	None	R
27-Jul-21	Fathead Minnow	6.3	5.8	3.0	None	R
27-Jul-21	Fathead Minnow	6.4	6.0	3.0	None	R
27-Jul-21	Fathead Minnow	6.8	6.4	2.8	None	R
27-Jul-21	Fathead Minnow	7.2	6.7	4.6	None	R
27-Jul-21	Fathead Minnow	6.7	6.3	4.1	None	R
27-Jul-21	Fathead Minnow	6.8	6.4	3.8	None	R
27-Jul-21	Fathead Minnow	5.8	5.4	2.1	None	R
27-Jul-21	Fathead Minnow	6.4	5.9	2.7	None	R
27-Jul-21	Fathead Minnow	6.9	6.4	3.8	None	R
27-Jul-21	Fathead Minnow	6.6	6.1	3.3	None	R
27-Jul-21	Fathead Minnow	6.9	6.4	2.9	None	R
27-Jul-21	Fathead Minnow	6.3	5.8	2.6	None	R
27-Jul-21	Fathead Minnow	6.5	6.0	2.6	None	R
27-Jul-21	Fathead Minnow	6.3	5.8	2.5	None	R
27-Jul-21	Fathead Minnow	6.2	5.7	2.3	None	R
27-Jul-21	Fathead Minnow	6.3	5.8	2.4	None	R
27-Jul-21	Fathead Minnow	6.1	5.6	2.2	None	R
27-Jul-21	Fathead Minnow	6.3	5.8	2.8	None	R
27-Jul-21	Fathead Minnow	6.3	6.9	4.1	None	R
27-Jul-21	Fathead Minnow	6.7	6.2	3.1	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
27-Jul-21	Fathead Minnow	5.8	5.4	1.9	None	R
27-Jul-21	Fathead Minnow	7.3	6.8	4.2	None	R
27-Jul-21	Fathead Minnow	7.2	6.7	4.2	None	R
27-Jul-21	Fathead Minnow	7.5	7.0	4.0	None	R
27-Jul-21	Fathead Minnow	7.1	6.7	4.0	None	R
27-Jul-21	Fathead Minnow	6.4	5.9	3.1	None	R
27-Jul-21	Fathead Minnow	5.7	5.2	2.3	None	R
27-Jul-21	Fathead Minnow	6.1	5.6	2.0	None	R
27-Jul-21	Fathead Minnow	5.7	5.2	1.8	None	R
25-Jul-21	Fathead Minnow	6.6	6.3	3.1	None	R
27-Jul-21	Fathead Minnow	6.8	6.4	3.0	None	R
25-Jul-21	Fathead Minnow	6.8	6.4	2.5	None	R
25-Jul-21	Fathead Minnow	6.4	6.0	2.7	None	R
25-Jul-21	Fathead Minnow	6.4	6.0	2.8	None	R
25-Jul-21	Fathead Minnow	6.1	5.6	2.2	None	R
25-Jul-21	Fathead Minnow	6.7	6.3		None	R
25-Jul-21	Fathead Minnow	6.5	6.0	-	None	R
25-Jul-21	Fathead Minnow	6.8	6.4	-	None	R
25-Jul-21	Fathead Minnow	6.1	5.7	-	None	R
25-Jul-21	Fathead Minnow	7.2	6.8	-	None	R
25-Jul-21	Fathead Minnow	6.1	5.8	-	None	R
25-Jul-21	Fathead Minnow	8.1	7.7	-	None	R
25-Jul-21	Fathead Minnow	6.5	6.2	-	None	R
25-Jul-21	Fathead Minnow	6.4	5.9	-	None	R
25-Jul-21	Fathead Minnow	6.5	6.2	-	None	R
25-Jul-21	Fathead Minnow	7.3	6.9	-	None	R
25-Jul-21	Fathead Minnow	6.2	5.8	-	None	R
25-Jul-21	Fathead Minnow	7.1	6.6	-	None	R
25-Jul-21	Fathead Minnow	7.1	6.8	-	None	R
25-Jul-21	Fathead Minnow	6.3	5.9	-	None	R
25-Jul-21	Fathead Minnow	6.1	5.6	-	None	R
25-Jul-21	Fathead Minnow	7.1	6.7	-	None	R
25-Jul-21	Fathead Minnow	6.5	6.0	-	None	R
25-Jul-21	Fathead Minnow	5.5	5.1	-	None	R
25-Jul-21	Fathead Minnow	6.6	6.4	-	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Fathead Minnow	6.0	5.5	-	None	R
25-Jul-21	Fathead Minnow	6.0	5.6	-	None	R
25-Jul-21	Fathead Minnow	5.9	5.5	-	None	R
25-Jul-21	Fathead Minnow	6.8	6.4	-	None	R
25-Jul-21	Fathead Minnow	7.1	6.7	-	None	R
25-Jul-21	Fathead Minnow	6.6	6.2	-	None	R
25-Jul-21	Fathead Minnow	7.1	6.7	-	None	R
25-Jul-21	Fathead Minnow	5.2	4.9	-	None	R
25-Jul-21	Fathead Minnow	6.9	6.5	-	None	R
25-Jul-21	Fathead Minnow	6.8	6.5	-	None	R
25-Jul-21	Fathead Minnow	7.1	6.6	-	None	R
25-Jul-21	Fathead Minnow	6.3	5.9	-	None	R
25-Jul-21	Fathead Minnow	6.5	6.2	-	None	R
25-Jul-21	Fathead Minnow	6.7	6.4	-	None	R
25-Jul-21	Fathead Minnow	7.0	6.6	-	None	R
25-Jul-21	Fathead Minnow	6.0	5.6	-	None	R
27-Jul-21	Northern Redbelly Dace	6.5	6.1	1.9	None	R
27-Jul-21	Northern Redbelly Dace	5.7	5.3	1.4	None	R
27-Jul-21	Northern Redbelly Dace	4.9	4.5	1.3	None	R
27-Jul-21	Northern Redbelly Dace	6.4	5.9	2.8	None	R
27-Jul-21	Northern Redbelly Dace	4.7	4.4	1.1	None	R
27-Jul-21	Northern Redbelly Dace	5.3	4.8	1.4	None	R
27-Jul-21	Northern Redbelly Dace	4.7	4.4	1.1	None	R
27-Jul-21	Northern Redbelly Dace	5.2	4.8	1.4	None	R
27-Jul-21	Northern Redbelly Dace	6.1	5.7	1.9	None	R
27-Jul-21	Northern Redbelly Dace	4.6	4.3	0.9	None	R
27-Jul-21	Northern Redbelly Dace	5.1	4.7	-	None	R
27-Jul-21	Northern Redbelly Dace	5.3	4.9	1.4	None	R
27-Jul-21	Northern Redbelly Dace	5.2	4.9	1.2	None	R
27-Jul-21	Northern Redbelly Dace	6.0	5.6	1.8	None	R
27-Jul-21	Northern Redbelly Dace	5.2	4.9	0.9	None	R
27-Jul-21	Northern Redbelly Dace	5.4	5.0	1.6	None	R
27-Jul-21	Northern Redbelly Dace	5.3	4.9	1.2	None	R
27-Jul-21	Northern Redbelly Dace	5.6	5.2	1.5	None	R
27-Jul-21	Northern Redbelly Dace	5.1	4.7	1.3	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Northern Redbelly Dace	5.1	4.7	1.2	None	R
25-Jul-21	Northern Redbelly Dace	4.8	4.5	1.0	None	R
25-Jul-21	Northern Redbelly Dace	6.5	6.1	1.7	None	R
25-Jul-21	Northern Redbelly Dace	6.1	5.6	1.7	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.7	1.8	None	R
25-Jul-21	Northern Redbelly Dace	5.0	4.5	1.0	Dead	M
25-Jul-21	Northern Redbelly Dace	5.1	4.6	1.1	None	R
25-Jul-21	Northern Redbelly Dace	6.4	6.0	2.0	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.6	0.1	None	R
25-Jul-21	Northern Redbelly Dace	5.2	4.8	0.1	None	R
25-Jul-21	Northern Redbelly Dace	6.7	6.4	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	4.9	4.6	-	None	R
25-Jul-21	Northern Redbelly Dace	4.7	4.5	-	None	R
25-Jul-21	Northern Redbelly Dace	5.5	5.2	-	None	R
25-Jul-21	Northern Redbelly Dace	6.1	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	5.4	4.9	-	None	R
25-Jul-21	Northern Redbelly Dace	5.2	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	4.8	4.4	-	None	R
25-Jul-21	Northern Redbelly Dace	4.6	4.2	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	4.4	4.1	-	None	R
25-Jul-21	Northern Redbelly Dace	5.4	5.1	-	None	R
25-Jul-21	Northern Redbelly Dace	5.0	4.6	-	None	R
25-Jul-21	Northern Redbelly Dace	5.0	4.7	-	None	R
25-Jul-21	Northern Redbelly Dace	4.6	4.3	-	None	R
25-Jul-21	Northern Redbelly Dace	5.6	5.2	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.9	-	None	R
25-Jul-21	Northern Redbelly Dace	5.0	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	5.0	4.7	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.7	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.6	-	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
25-Jul-21	Northern Redbelly Dace	6.1	5.7	-	None	R
25-Jul-21	Northern Redbelly Dace	5.1	4.9	-	None	R
25-Jul-21	Northern Redbelly Dace	5.2	4.8	-	None	R
25-Jul-21	Northern Redbelly Dace	4.7	4.4	-	None	R
25-Jul-21	Northern Redbelly Dace	5.0	4.6	-	None	R
25-Jul-21	Northern Redbelly Dace	5.0	4.8	-	None	R
27-Jul-21	Pearl Dace	4.2	3.8	0.7	None	R
27-Jul-21	Pearl Dace	6.6	6.1	2.1	None	R
25-Jul-21	Pearl Dace	12.7	12.0	11.9	None	R
25-Jul-21	Pearl Dace	10.0	9.4	6.6	None	R
27-Jul-21	Pearl Dace	6.2	5.7	2.1	None	R
25-Jul-21	Pearl Dace	7.2	6.7	3.6	None	R
27-Jul-21	White Sucker	10.2	9.4	11.9	None	R
27-Jul-21	White Sucker	11.3	10.5	14.6	None	R
27-Jul-21	White Sucker	11.7	10.9	15.8	None	R
27-Jul-21	White Sucker	9.7	9.1	9.0	None	R
27-Jul-21	White Sucker	11.3	10.4	13.0	None	R
27-Jul-21	White Sucker	10.9	10.1	11.1	None	R
27-Jul-21	White Sucker	10.6	9.9	10.7	None	R
27-Jul-21	White Sucker	10.7	9.9	11.5	None	R
27-Jul-21	White Sucker	10.7	10.0	11.1	None	R
27-Jul-21	White Sucker	10.4	9.7	10.9	None	R
27-Jul-21	White Sucker	11.2	10.4	13.2	None	R
27-Jul-21	White Sucker	10.6	9.8	11.6	None	R
27-Jul-21	White Sucker	9.8	9.2	9.3	None	R
27-Jul-21	White Sucker	10.6	9.8	11.1	None	R
27-Jul-21	White Sucker	11.4	10.8	12.9	None	R
27-Jul-21	White Sucker	9.8	9.3	9.1	None	R
27-Jul-21	White Sucker	10.7	9.9	12.0	None	R
27-Jul-21	White Sucker	10.4	9.8	10.4	None	R
27-Jul-21	White Sucker	10.4	9.7	10.8	None	R
27-Jul-21	White Sucker	11.1	10.3	11.9	None	R
27-Jul-21	White Sucker	11.7	11.0	13.7	None	R
27-Jul-21	White Sucker	11.8	11.1	15.1	None	R
27-Jul-21	White Sucker	12.3	11.5	18.7	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
27-Jul-21	White Sucker	10.4	9.8	10.5	None	R
27-Jul-21	White Sucker	10.6	9.9	11.4	None	R
27-Jul-21	White Sucker	11.1	10.4	13.0	None	R
27-Jul-21	White Sucker	12.4	11.6	17.7	None	R
27-Jul-21	White Sucker	11.2	10.5	12.4	None	R
27-Jul-21	White Sucker	11.6	10.7	14.9	None	R
27-Jul-21	White Sucker	10.9	10.1	12.1	None	R
27-Jul-21	White Sucker	11.3	10.5	14.3	None	R
27-Jul-21	White Sucker	10.4	9.7	10.9	None	R
27-Jul-21	White Sucker	10.6	9.8	10.0	None	R
27-Jul-21	White Sucker	10.3	9.7	10.7	None	R
27-Jul-21	White Sucker	10.4	9.8	10.6	None	R
27-Jul-21	White Sucker	10.5	9.8	12.2	None	R
27-Jul-21	White Sucker	5.7	4.8	1.2	None	R
27-Jul-21	White Sucker	10.4	9.9	10.8	None	R
27-Jul-21	White Sucker	11.1	10.8	10.8	None	R
27-Jul-21	White Sucker	10.6	9.9	10.8	None	R
27-Jul-21	White Sucker	10.4	9.8	11.3	None	R
27-Jul-21	White Sucker	10.7	10.1	12.7	None	R
27-Jul-21	White Sucker	10.0	9.4	9.2	None	R
25-Jul-21	White Sucker	10.6	9.9	10.6	None	R
25-Jul-21	White Sucker	4.3	4.9	1.3	None	R
27-Jul-21	White Sucker	10.4	9.1	9.4	None	R
27-Jul-21	White Sucker	5.5	5.2	-	None	R
27-Jul-21	White Sucker	4.0	4.7	-	None	R
27-Jul-21	White Sucker	9.7	8.9	-	None	R
27-Jul-21	White Sucker	24.3	22.9	-	No Scale	R
27-Jul-21	White Sucker	3.0	2.8	-	None	R
27-Jul-21	White Sucker	11.0	10.1	-	None	R
27-Jul-21	White Sucker	9.7	9.0	-	None	R
27-Jul-21	White Sucker	5.3	4.8	-	None	R
27-Jul-21	White Sucker	5.2	4.8	-	None	R
27-Jul-21	White Sucker	5.0	4.7	-	None	R
27-Jul-21	White Sucker	4.0	3.7	-	None	R
27-Jul-21	White Sucker	4.5	4.2	-	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
27-Jul-21	White Sucker	3.7	3.5	-	None	R
27-Jul-21	White Sucker	5.0	4.8	-	None	R
27-Jul-21	White Sucker	5.0	4.8	-	None	R
27-Jul-21	White Sucker	4.6	4.3	-	None	R
27-Jul-21	White Sucker	9.4	5.1	-	None	R
27-Jul-21	White Sucker	4.4	4.1	-	None	R
27-Jul-21	White Sucker	4.4	6.1	-	None	R
27-Jul-21	White Sucker	4.4	4.1	-	None	R
27-Jul-21	White Sucker	5.2	4.9	-	None	R

Table A-12: Detailed Fish Measurements for West Creek Pond, RRM – July 2021.

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Brown Bullhead	18.9	-	117.1	None	R
24-Jul-21	Brown Bullhead	15.3	-	-	None	R
24-Jul-21	Brown Bullhead	16.4	-	-	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.2	-	0.6	None	R
24-Jul-21	Brown Bullhead	3.8	-	0.7	None	R
24-Jul-21	Brown Bullhead	4.6	-	1.3	None	R
24-Jul-21	Brown Bullhead	4.3	-	1.1	None	R
24-Jul-21	Brown Bullhead	4.9	-	1.7	None	R
24-Jul-21	Brown Bullhead	4.4	-	1.2	None	R
24-Jul-21	Brown Bullhead	3.5	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.5	-	0.6	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.0	-	0.3	None	R
24-Jul-21	Brown Bullhead	3.1	-	0.4	None	R
24-Jul-21	Brown Bullhead	4.2	-	1.0	None	R
24-Jul-21	Brown Bullhead	3.6	-	0.9	None	R
24-Jul-21	Brown Bullhead	3.5	-	0.6	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.2	-	0.4	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.8	-	0.8	None	R
24-Jul-21	Brown Bullhead	4.7	-	1.5	None	R
24-Jul-21	Brown Bullhead	3.6	-	0.8	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	4.2	-	0.9	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.6	None	R
24-Jul-21	Brown Bullhead	3.6	-	0.7	None	R
24-Jul-21	Brown Bullhead	3.8	-	1.0	None	R
24-Jul-21	Brown Bullhead	3.2	-	0.5	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Brown Bullhead	3.2	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.3	-	0.4	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.7	None	R
24-Jul-21	Brown Bullhead	3.2	-	0.3	None	R
24-Jul-21	Brown Bullhead	3.2	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.2	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.4	-	0.5	None	R
24-Jul-21	Brown Bullhead	3.5	-	0.6	None	R
24-Jul-21	Brassy Minnow	4.6	4.4	-	None	R
24-Jul-21	Brassy Minnow	4.7	4.4	0.9	None	R
24-Jul-21	Brassy Minnow	5.1	4.7	1.1	None	R
24-Jul-21	Brassy Minnow	5.7	5.4	1.8	None	R
24-Jul-21	Brassy Minnow	4.7	4.4	1.0	None	R
24-Jul-21	Brassy Minnow	8.3	7.8	4.7	None	R
24-Jul-21	Brassy Minnow	8.7	8.2	5.7	None	R
24-Jul-21	Brassy Minnow	5.1	4.7	1.2	None	R
24-Jul-21	Brassy Minnow	8.4	7.9	5.7	None	R
24-Jul-21	Brassy Minnow	5.1	4.7	1.0	None	R
24-Jul-21	Brassy Minnow	7.4	6.9	3.7	None	R
24-Jul-21	Brook Stickleback	3.7	-	0.6	None	R
24-Jul-21	Brook Stickleback	4.4	-	0.9	None	R
24-Jul-21	Brook Stickleback	4.4	-	1.1	None	R
24-Jul-21	Brook Stickleback	4.4	-	1.0	None	R
24-Jul-21	Brook Stickleback	3.7	-	0.6	None	R
24-Jul-21	Brook Stickleback	5.3	-	-	None	R
24-Jul-21	Brook Stickleback	4.5	-	-	None	R
24-Jul-21	Brook Stickleback	3.4	-	-	None	R
24-Jul-21	Brook Stickleback	4.7	-	-	None	R
24-Jul-21	Brook Stickleback	4.0	-	-	None	R
24-Jul-21	Brook Stickleback	3.0	-	-	None	R
24-Jul-21	Brook Stickleback	4.2	-	0.8	None	R
24-Jul-21	Brook Stickleback	5.2	-	1.8	None	R
24-Jul-21	Brook Stickleback	4.5	-	0.9	None	R
24-Jul-21	Brook Stickleback	4.6	-	1.2	LATERAL TUMOR	R
24-Jul-21	Brook Stickleback	4.1	-	0.7	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Brook Stickleback	4.0	-	0.7	None	R
24-Jul-21	Brook Stickleback	5.6	-	1.0	None	R
24-Jul-21	Brook Stickleback	4.3	-	0.8	None	R
24-Jul-21	Brook Stickleback	4.3	-	0.6	None	R
24-Jul-21	Brook Stickleback	4.8	-	1.2	None	R
24-Jul-21	Brook Stickleback	4.2	-	0.8	None	R
24-Jul-21	Brook Stickleback	3.9	-	0.6	None	R
24-Jul-21	Creek Chub	7.1	6.6	3.3	None	R
24-Jul-21	Creek Chub	6.1	5.7	2.1	None	R
24-Jul-21	Creek Chub	11.9	11.2	17.2	None	R
24-Jul-21	Creek Chub	10.4	9.8	10.5	None	R
24-Jul-21	Creek Chub	3.8	3.6	0.7	None	R
24-Jul-21	Creek Chub	6.7	6.2	2.5	None	R
24-Jul-21	Creek Chub	6.3	5.8	2.0	None	R
24-Jul-21	Creek Chub	5.6	5.2	1.7	None	R
24-Jul-21	Creek Chub	5.7	5.2	-	None	R
24-Jul-21	Creek Chub	6.3	5.9	1.9	None	R
24-Jul-21	Creek Chub	5.7	5.3	1.7	None	R
24-Jul-21	Creek Chub	6.4	6.0	2.5	None	R
24-Jul-21	Creek Chub	6.5	6.1	2.4	None	R
24-Jul-21	Creek Chub	6.4	5.9	2.4	None	R
24-Jul-21	Creek Chub	6.7	6.3	2.5	None	R
24-Jul-21	Creek Chub	6.2	5.8	2.0	None	R
24-Jul-21	Creek Chub	6.4	6.0	2.3	None	R
24-Jul-21	Creek Chub	6.2	5.8	2.2	None	R
24-Jul-21	Creek Chub	6.6	6.2	2.5	None	R
24-Jul-21	Creek Chub	5.8	5.4	1.8	None	R
24-Jul-21	Creek Chub	5.4	5.9	2.3	None	R
24-Jul-21	Creek Chub	6.9	6.4	3.0	None	R
24-Jul-21	Creek Chub	6.6	6.2	2.5	None	R
24-Jul-21	Creek Chub	5.9	5.4	1.7	None	R
24-Jul-21	Creek Chub	6.0	5.6	1.9	None	R
24-Jul-21	Creek Chub	5.9	5.5	2.1	None	R
24-Jul-21	Creek Chub	5.2	4.8	1.3	None	R
24-Jul-21	Creek Chub	6.4	5.9	2.3	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Creek Chub	6.6	6.2	2.6	None	R
24-Jul-21	Creek Chub	6.1	5.7	2.1	None	R
24-Jul-21	Creek Chub	6.3	5.9	2.3	None	R
24-Jul-21	Creek Chub	6.8	6.4	4.3	None	R
24-Jul-21	Central Mudminnow	4.5	-	1.0	None	R
24-Jul-21	Central Mudminnow	3.6	-	0.5	None	R
24-Jul-21	Central Mudminnow	8.3	-	8.5	None	R
24-Jul-21	Central Mudminnow	5.0	-	1.8	None	R
24-Jul-21	Central Mudminnow	4.5	-	1.2	None	R
24-Jul-21	Central Mudminnow	8.5	-	7.3	None	R
24-Jul-21	Central Mudminnow	4.4	-	0.9	None	R
24-Jul-21	Central Mudminnow	8.4	-	6.3	None	R
24-Jul-21	Central Mudminnow	4.7	-	1.3	None	R
24-Jul-21	Central Mudminnow	4.6	-	1.4	None	R
24-Jul-21	Central Mudminnow	4.6	-	1.3	None	R
24-Jul-21	Central Mudminnow	3.8	-	0.5	None	R
24-Jul-21	Central Mudminnow	5.1	-	1.1	None	R
24-Jul-21	Central Mudminnow	4.9	-	1.4	1	R
24-Jul-21	Central Mudminnow	8.6	-	7.8	None	R
24-Jul-21	Central Mudminnow	12.1	-	22.0	None	R
24-Jul-21	Central Mudminnow	4.5	-	1.1	None	R
24-Jul-21	Central Mudminnow	12.5	-	-	None	R
24-Jul-21	Central Mudminnow	4.7	-	1.2	None	R
24-Jul-21	Central Mudminnow	4.8	-	1.1	None	R
24-Jul-21	Central Mudminnow	4.3	-	0.8	None	R
24-Jul-21	Central Mudminnow	5.0	-	1.3	None	R
24-Jul-21	Central Mudminnow	9.6	-	10.7	None	R
24-Jul-21	Central Mudminnow	4.5	-	1.0	None	R
24-Jul-21	Central Mudminnow	9.1	-	9.4	None	R
24-Jul-21	Central Mudminnow	5.4	-	1.8	None	R
24-Jul-21	Central Mudminnow	4.8	-	1.3	None	R
24-Jul-21	Central Mudminnow	4.9	-	1.2	None	R
24-Jul-21	Central Mudminnow	4.8	-	1.0	None	R
24-Jul-21	Central Mudminnow	4.8	-	1.2	None	R
24-Jul-21	Central Mudminnow	10.4	-	13.4	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Central Mudminnow	4.3	-	0.9	None	R
24-Jul-21	Central Mudminnow	7.6	-	5.7	None	R
24-Jul-21	Central Mudminnow	9.0	-	9.1	None	R
24-Jul-21	Central Mudminnow	9.2	-	8.4	None	R
24-Jul-21	Central Mudminnow	4.8	-	1.1	None	R
24-Jul-21	Central Mudminnow	8.2	-	6.7	None	R
24-Jul-21	Central Mudminnow	9.7	-	10.1	None	R
24-Jul-21	Central Mudminnow	8.8	-	7.5	None	R
24-Jul-21	Central Mudminnow	9.5	-	8.9	None	R
24-Jul-21	Central Mudminnow	9.2	-	9.1	None	R
24-Jul-21	Central Mudminnow	10.0	-	9.2	None	R
24-Jul-21	Central Mudminnow	4.7	-	1.0	None	R
24-Jul-21	Central Mudminnow	4.8	-	1.1	None	R
24-Jul-21	Central Mudminnow	8.4	-	7.0	None	R
24-Jul-21	Fathead Minnow	6.7	6.1	2.8	None	R
24-Jul-21	Fathead Minnow	7.6	7.1	4.2	None	R
24-Jul-21	Fathead Minnow	8.3	7.8	6.0	None	R
24-Jul-21	Fathead Minnow	7.8	7.2	5.2	None	R
24-Jul-21	Fathead Minnow	7.0	6.5	3.6	None	R
24-Jul-21	Fathead Minnow	7.0	6.6	3.8	None	R
24-Jul-21	Fathead Minnow	6.8	6.3	3.4	None	R
24-Jul-21	Fathead Minnow	6.8	6.4	3.4	None	R
24-Jul-21	Fathead Minnow	7.6	7.1	5.1	None	R
24-Jul-21	Fathead Minnow	7.5	6.9	3.7	None	R
24-Jul-21	Fathead Minnow	6.2	5.8	2.3	None	R
24-Jul-21	Finescale Dace	9.0	8.4	6.6	None	R
24-Jul-21	Finescale Dace	5.9	5.5	1.8	None	R
24-Jul-21	Finescale Dace	6.6	6.1	2.8	None	R
24-Jul-21	Finescale Dace	5.0	4.7	1.2	None	R
24-Jul-21	Finescale Dace	5.1	4.7	1.3	None	R
24-Jul-21	Finescale Dace	5.6	5.1	1.6	None	R
24-Jul-21	Finescale Dace	4.6	4.2	0.9	None	R
24-Jul-21	Finescale Dace	6.5	6.1	2.6	None	R
24-Jul-21	Finescale Dace	5.3	4.9	1.3	None	R
24-Jul-21	Finescale Dace	5.6	5.2	1.5	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Finescale Dace	5.8	5.4	1.8	None	R
24-Jul-21	Finescale Dace	5.4	5.0	1.5	None	R
24-Jul-21	Finescale Dace	5.4	5.1	1.5	None	R
24-Jul-21	Finescale Dace	5.1	4.8	1.2	None	R
24-Jul-21	Finescale Dace	5.4	5.0	1.6	None	R
24-Jul-21	Finescale Dace	5.3	4.9	1.3	None	R
24-Jul-21	Finescale Dace	6.1	5.7	2.1	None	R
24-Jul-21	Finescale Dace	5.3	4.8	1.4	None	R
24-Jul-21	Finescale Dace	4.7	4.3	0.9	None	R
24-Jul-21	Finescale Dace	5.3	4.9	1.4	None	R
24-Jul-21	Finescale Dace	5.5	5.1	1.5	None	R
24-Jul-21	Finescale Dace	4.3	4.0	0.6	None	R
24-Jul-21	Finescale Dace	6.1	5.6	2.1	None	R
24-Jul-21	Finescale Dace	8.2	7.6	5.1	None	R
24-Jul-21	Finescale Dace	8.0	7.5	5.5	None	R
24-Jul-21	Finescale Dace	5.1	4.7	1.1	None	R
24-Jul-21	Finescale Dace	5.9	5.5	2.1	None	R
24-Jul-21	Finescale Dace	5.8	5.4	1.8	None	R
24-Jul-21	Finescale Dace	4.3	3.9	0.6	None	R
24-Jul-21	Finescale Dace	5.8	5.4	2.0	None	R
24-Jul-21	Finescale Dace	5.8	5.4	1.8	None	R
24-Jul-21	Finescale Dace	5.4	5.0	1.5	None	R
24-Jul-21	Finescale Dace	5.3	4.9	1.4	None	R
24-Jul-21	Finescale Dace	5.6	5.2	1.7	None	R
24-Jul-21	Finescale Dace	4.8	4.5	1.2	None	R
24-Jul-21	Finescale Dace	5.1	4.7	1.1	None	R
24-Jul-21	Finescale Dace	4.5	4.2	0.8	None	R
24-Jul-21	Finescale Dace	4.8	4.4	1.1	None	R
24-Jul-21	Finescale Dace	9.5	9.0	8.4	None	R
24-Jul-21	Finescale Dace	7.5	7.1	4.3	None	R
24-Jul-21	Finescale Dace	7.6	7.1	4.4	None	R
24-Jul-21	Finescale Dace	8.2	7.7	5.2	None	R
24-Jul-21	Finescale Dace	8.7	8.2	5.9	None	R
24-Jul-21	Finescale Dace	7.7	7.2	4.3	None	R
24-Jul-21	Finescale Dace	6.4	6.0	2.5	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Finescale Dace	6.6	6.1	2.6	None	R
24-Jul-21	Johnny Darter	4.6	-	1.1	None	R
24-Jul-21	Johnny Darter	4.4	-	0.9	None	R
24-Jul-21	Johnny Darter	3.5	-	0.6	None	R
24-Jul-21	Johnny Darter	4.7	-	1.3	None	R
24-Jul-21	Johnny Darter	5.0	-	1.0	None	R
24-Jul-21	Johnny Darter	4.8	-	1.0	None	R
24-Jul-21	Johnny Darter	4.2	-	0.8	None	R
24-Jul-21	Johnny Darter	4.2	-	0.7	None	R
24-Jul-21	Johnny Darter	4.3	-	-	1	R
24-Jul-21	Johnny Darter	4.6	-	-	None	R
24-Jul-21	Johnny Darter	4.3	-	-	None	R
24-Jul-21	Johnny Darter	4.3	-	-	None	R
24-Jul-21	Johnny Darter	4.3	-	-	None	R
24-Jul-21	Johnny Darter	3.4	-	-	None	R
24-Jul-21	Johnny Darter	4.3	-	-	None	R
24-Jul-21	Johnny Darter	4.4	-	-	None	R
24-Jul-21	Johnny Darter	4.5	-	-	None	R
24-Jul-21	Johnny Darter	4.5	-	-	None	R
24-Jul-21	Johnny Darter	4.5	-	-	None	R
24-Jul-21	Johnny Darter	4.1	-	-	None	R
24-Jul-21	Johnny Darter	4.5	-	-	None	R
24-Jul-21	Johnny Darter	2.9	-	-	None	R
24-Jul-21	Johnny Darter	3.4	-	-	None	R
24-Jul-21	Johnny Darter	3.0	-	-	None	R
24-Jul-21	Johnny Darter	6.4	-	-	worm/cyst side body	R
24-Jul-21	Johnny Darter	3.6	-	-	None	R
24-Jul-21	Johnny Darter	4.5	-	1.2	None	R
24-Jul-21	Johnny Darter	4.1	-	1.1	None	R
24-Jul-21	Johnny Darter	4.1	-	1.1	None	R
24-Jul-21	Johnny Darter	3.7	-	-	1	R
24-Jul-21	Johnny Darter	4.5	-	-	None	R
24-Jul-21	Northern Redbelly Dace	5.8	5.4	1.7	None	R
24-Jul-21	Northern Redbelly Dace	5.8	5.4	1.9	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Northern Redbelly Dace	6.2	5.8	2.2	None	R
24-Jul-21	Northern Redbelly Dace	6.5	6.0	2.8	None	R
24-Jul-21	Northern Redbelly Dace	5.4	5.1	1.7	None	R
24-Jul-21	Northern Redbelly Dace	5.5	5.2	1.7	None	R
24-Jul-21	Northern Redbelly Dace	5.9	5.5	2.1	None	R
24-Jul-21	Northern Redbelly Dace	5.5	5.2	1.5	None	R
24-Jul-21	Northern Redbelly Dace	6.0	5.6	1.8	None	R
24-Jul-21	Northern Redbelly Dace	5.8	5.4	1.8	None	R
24-Jul-21	Northern Redbelly Dace	5.3	4.9	1.4	None	R
24-Jul-21	Northern Redbelly Dace	5.9	5.5	2.0	None	R
24-Jul-21	Northern Redbelly Dace	6.1	5.7	2.2	None	R
24-Jul-21	Northern Redbelly Dace	5.7	5.4	1.8	TUMOR ON GILL	R
24-Jul-21	Northern Redbelly Dace	6.4	6.0	2.6	None	R
24-Jul-21	Northern Redbelly Dace	6.5	6.1	2.3	None	R
24-Jul-21	Northern Redbelly Dace	6.2	5.8	2.2	None	R
24-Jul-21	Northern Redbelly Dace	6.1	5.7	2.1	None	R
24-Jul-21	Northern Redbelly Dace	6.1	5.7	2.3	None	R
24-Jul-21	Northern Redbelly Dace	4.2	4.0	0.6	None	R
24-Jul-21	Northern Redbelly Dace	5.8	5.4	1.7	None	R
24-Jul-21	Northern Redbelly Dace	6.7	6.3	2.8	None	R
24-Jul-21	Northern Redbelly Dace	5.7	5.4	1.3	None	R
24-Jul-21	Northern Redbelly Dace	5.6	5.2	1.6	None	R
24-Jul-21	Northern Redbelly Dace	6.0	5.7	2.0	None	R
24-Jul-21	Northern Redbelly Dace	5.7	5.3	1.9	None	R
24-Jul-21	Northern Redbelly Dace	5.1	4.8	1.2	None	R
24-Jul-21	Northern Redbelly Dace	5.5	5.1	1.5	None	R
24-Jul-21	Northern Redbelly Dace	5.9	5.5	1.9	None	R
24-Jul-21	Northern Redbelly Dace	5.5	5.0	1.5	None	R
24-Jul-21	Northern Redbelly Dace	6.0	5.7	1.9	None	R
24-Jul-21	Northern Redbelly Dace	5.5	5.1	1.3	None	R
24-Jul-21	Northern Redbelly Dace	5.6	5.2	1.5	None	R
24-Jul-21	Northern Redbelly Dace	6.3	5.9	2.1	None	R
24-Jul-21	Northern Redbelly Dace	6.2	5.9	2.3	BULGING EYE	R
24-Jul-21	Northern Redbelly Dace	6.1	5.7	2.1	None	R
24-Jul-21	Northern Redbelly Dace	6.4	6.0	2.4	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Northern Redbelly Dace	5.7	5.3	1.6	None	R
24-Jul-21	Northern Redbelly Dace	5.2	4.9	1.2	None	R
24-Jul-21	Northern Redbelly Dace	5.5	5.1	1.5	None	R
24-Jul-21	Northern Redbelly Dace	5.5	5.1	1.5	None	R
24-Jul-21	Pearl Dace	12.3	11.5	17.0	PHOTO	R
24-Jul-21	Pearl Dace	6.0	5.6	2.3	None	R
24-Jul-21	Pearl Dace	5.9	5.4	2.1	None	R
24-Jul-21	Pearl Dace	13.5	12.7	26.0	None	R
24-Jul-21	Pearl Dace	7.3	6.9	3.9	None	R
24-Jul-21	Pearl Dace	6.2	5.8	2.6	None	R
24-Jul-21	Pearl Dace	6.0	5.6	2.0	None	R
24-Jul-21	Pearl Dace	6.2	5.8	2.2	None	R
24-Jul-21	Pearl Dace	7.0	6.5	3.4	None	R
24-Jul-21	Pearl Dace	6.6	6.1	2.6	None	R
24-Jul-21	Pearl Dace	6.8	6.4	3.3	None	R
24-Jul-21	Pearl Dace	5.9	5.5	1.9	None	R
24-Jul-21	Pearl Dace	6.0	5.6	2.1	None	R
24-Jul-21	Pearl Dace	6.2	5.7	2.5	None	R
24-Jul-21	Pearl Dace	6.3	5.9	2.5	None	R
24-Jul-21	Pearl Dace	5.8	5.4	1.8	None	R
24-Jul-21	Pearl Dace	6.3	6.0	2.4	None	R
24-Jul-21	Pearl Dace	6.2	5.8	2.2	None	R
24-Jul-21	Pearl Dace	6.3	5.9	2.6	None	R
24-Jul-21	Pearl Dace	6.4	6.0	2.7	None	R
24-Jul-21	Pearl Dace	5.6	5.2	1.7	None	R
24-Jul-21	Pearl Dace	6.5	6.2	2.7	None	R
24-Jul-21	Pearl Dace	6.3	5.9	2.4	None	R
24-Jul-21	Pearl Dace	6.5	6.1	2.6	None	R
24-Jul-21	Pearl Dace	6.2	5.8	2.3	None	R
24-Jul-21	Pearl Dace	6.3	5.9	2.3	None	R
24-Jul-21	Pearl Dace	5.2	4.8	1.3	None	R
24-Jul-21	Pearl Dace	6.4	5.9	2.3	None	R
24-Jul-21	Pearl Dace	6.3	5.9	2.4	None	R
24-Jul-21	Pearl Dace	6.2	5.8	2.5	None	R
24-Jul-21	Pearl Dace	7.0	6.5	3.3	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
24-Jul-21	Pearl Dace	6.4	6.0	2.5	None	R
24-Jul-21	Pearl Dace	5.1	4.8	1.2	None	R
24-Jul-21	Pearl Dace	5.9	5.5	1.8	None	R
24-Jul-21	Pearl Dace	6.8	6.4	3.0	None	R
24-Jul-21	Pearl Dace	6.5	6.1	2.4	None	R
24-Jul-21	Pearl Dace	6.6	6.2	2.8	None	R
24-Jul-21	Pearl Dace	6.5	6.1	2.4	None	R
24-Jul-21	Pearl Dace	6.6	6.2	2.7	None	R
24-Jul-21	Pearl Dace	6.6	6.2	2.5	None	R
24-Jul-21	Pearl Dace	6.3	5.9	2.2	None	R
24-Jul-21	Pearl Dace	6.3	5.9	2.5	None	R
24-Jul-21	Pearl Dace	6.2	5.8	2.2	None	R
24-Jul-21	Pearl Dace	6.4	6.0	2.5	None	R
24-Jul-21	Pearl Dace	6.4	6.0	2.6	None	R

Table A-13: Detailed Fish Measurements for Clark Creek Pond, RRM – July 2021.

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
27-Jul-21	Brassy Minnow	4.3	4.0	-	None	R
27-Jul-21	Brassy Minnow	4.9	4.4	-	None	R
27-Jul-21	Brassy Minnow	4.9	4.6	-	None	R
27-Jul-21	Brassy Minnow	4.5	4.2	-	None	R
27-Jul-21	Brassy Minnow	4.6	4.3	-	None	R
27-Jul-21	Brassy Minnow	3.5	3.3	-	None	R
27-Jul-21	Brassy Minnow	3.0	2.7	-	None	R
27-Jul-21	Brassy Minnow	3.6	3.3	-	None	R
27-Jul-21	Brassy Minnow	3.6	3.3	-	None	R
27-Jul-21	Brassy Minnow	3.5	3.3	-	None	R
27-Jul-21	Brassy Minnow	3.7	3.4	-	None	R
27-Jul-21	Brassy Minnow	3.2	2.9	-	None	R
27-Jul-21	Brassy Minnow	3.0	2.8	-	None	R
27-Jul-21	Brassy Minnow	3.4	3.2	-	None	R
27-Jul-21	Brassy Minnow	3.3	3.0	-	None	R
27-Jul-21	Brassy Minnow	4.2	3.9	-	None	R
27-Jul-21	Brassy Minnow	4.7	4.3	-	None	R
27-Jul-21	Brassy Minnow	5.2	4.9	-	None	R
27-Jul-21	Brassy Minnow	4.3	4.0	-	None	R
27-Jul-21	Brassy Minnow	5.1	4.8	-	None	R
27-Jul-21	Brassy Minnow	5.0	4.7	-	None	R
27-Jul-21	Brassy Minnow	3.8	3.5	-	None	R
27-Jul-21	Brassy Minnow	3.9	3.6	-	None	R
27-Jul-21	Brassy Minnow	4.0	3.7	-	None	R
27-Jul-21	Brassy Minnow	4.7	4.4	-	None	R
27-Jul-21	Brassy Minnow	4.8	4.5	-	None	R
27-Jul-21	Brassy Minnow	4.5	4.3	-	None	R
27-Jul-21	Brassy Minnow	4.1	3.8	-	None	R
27-Jul-21	Brassy Minnow	3.5	3.2	-	None	R
27-Jul-21	Brassy Minnow	3.8	3.5	-	None	R
27-Jul-21	Brassy Minnow	3.3	3.1	-	None	R
27-Jul-21	Brassy Minnow	4.1	3.8	-	None	R
27-Jul-21	Brassy Minnow	3.3	3.0	-	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
27-Jul-21	Brassy Minnow	4.3	4.0	-	None	R
27-Jul-21	Brassy Minnow	4.5	4.2	-	None	R
27-Jul-21	Brassy Minnow	3.5	3.2	-	None	R
27-Jul-21	Brassy Minnow	3.3	3.1	-	None	R
27-Jul-21	Brassy Minnow	5.0	4.7	-	None	R
27-Jul-21	Brassy Minnow	4.4	4.1	-	None	R
27-Jul-21	Brassy Minnow	4.5	4.2	-	None	R
27-Jul-21	Brassy Minnow	4.6	4.3	-	None	R
27-Jul-21	Brassy Minnow	5.2	4.9	-	None	R
27-Jul-21	Brassy Minnow	3.6	3.3	-	None	R
27-Jul-21	Brassy Minnow	4.4	4.1	-	None	R
27-Jul-21	Brassy Minnow	3.4	3.2	-	None	R
27-Jul-21	Brassy Minnow	3.6	3.3	-	None	R
27-Jul-21	Brassy Minnow	4.3	4.0	-	None	R
27-Jul-21	Brassy Minnow	3.7	3.3	-	None	R
27-Jul-21	Brassy Minnow	3.6	3.3	-	None	R
27-Jul-21	Brassy Minnow	4.6	4.3	-	None	R
27-Jul-21	Brassy Minnow	3.8	3.5	-	None	R
27-Jul-21	Brassy Minnow	3.4	3.1	-	None	R
27-Jul-21	Brassy Minnow	3.5	3.2	-	None	R
27-Jul-21	Brassy Minnow	3.2	2.9	-	None	R
27-Jul-21	Brassy Minnow	4.8	4.4	0.8	None	R
27-Jul-21	Brassy Minnow	4.6	4.2	-	None	R
20-Jul-21	Brook Stickleback	3.0	-	0.8	None	R
20-Jul-21	Brook Stickleback	2.3	-	2.0	None	R
20-Jul-21	Brook Stickleback	4.3	-	0.8	None	R
20-Jul-21	Brook Stickleback	3.0	-	1.0	None	R
20-Jul-21	Brook Stickleback	3.4	-	1.2	None	R
20-Jul-21	Brook Stickleback	3.0	-	1.4	None	R
20-Jul-21	Brook Stickleback	4.0	-	1.0	None	R
20-Jul-21	Brook Stickleback	3.5	-	1.2	None	R
20-Jul-21	Brook Stickleback	2.9	-	0.5	None	R
20-Jul-21	Brook Stickleback	2.8	-	0.5	None	R
20-Jul-21	Brook Stickleback	3.7	-	0.8	None	R
20-Jul-21	Brook Stickleback	2.8	-	0.3	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
20-Jul-21	Brook Stickleback	2.8	-	0.4	None	R
20-Jul-21	Brook Stickleback	2.7	-	0.2	None	R
20-Jul-21	Brook Stickleback	2.6	-	0.3	None	R
20-Jul-21	Brook Stickleback	3.3	-	0.3	None	R
20-Jul-21	Brook Stickleback	3.4	-	0.4	None	R
20-Jul-21	Brook Stickleback	2.5	-	0.2	None	R
20-Jul-21	Brook Stickleback	2.6	-	0.2	None	R
20-Jul-21	Brook Stickleback	2.9	-	0.3	None	R
20-Jul-21	Brook Stickleback	2.5	-	0.2	None	R
20-Jul-21	Brook Stickleback	2.0	-	0.7	None	R
20-Jul-21	Brook Stickleback	3.1	-	0.6	None	R
20-Jul-21	Brook Stickleback	2.8	-	0.3	None	R
20-Jul-21	Brook Stickleback	4.0	-	0.8	None	R
20-Jul-21	Brook Stickleback	2.9	-	0.4	None	R
20-Jul-21	Brook Stickleback	3.4	-	0.8	None	R
20-Jul-21	Brook Stickleback	3.9	-	1.0	None	R
20-Jul-21	Brook Stickleback	4.3	-	1.6	None	R
20-Jul-21	Brook Stickleback	3.5	-	1.0	None	R
20-Jul-21	Brook Stickleback	3.0	-	0.4	None	R
20-Jul-21	Brook Stickleback	2.3	-	0.4	None	R
21-Jul-21	Brook Stickleback	2.8	-	0.5	None	R
21-Jul-21	Brook Stickleback	2.7	-	0.8	None	R
21-Jul-21	Brook Stickleback	2.3	-	0.3	None	R
21-Jul-21	Brook Stickleback	2.8	-	0.6	None	R
21-Jul-21	Brook Stickleback	2.9	-	0.7	None	R
21-Jul-21	Brook Stickleback	2.6	-	0.6	None	R
21-Jul-21	Brook Stickleback	3.2	-	1.0	None	R
21-Jul-21	Brook Stickleback	4.2	-	1.1	None	R
20-Jul-21	Central Mudminnow	10.8	-	14.6	None	R
20-Jul-21	Central Mudminnow	8.8	-	8.4	None	R
20-Jul-21	Central Mudminnow	5.5	-	2.2	None	R
20-Jul-21	Central Mudminnow	6.2	-	3.5	None	R
20-Jul-21	Central Mudminnow	6.3	-	3.6	None	R
20-Jul-21	Central Mudminnow	9.9	-	10.6	None	R
20-Jul-21	Central Mudminnow	8.3	-	6.9	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
20-Jul-21	Central Mudminnow	11.2	-	16.5	None	R
20-Jul-21	Central Mudminnow	9.2	-	8.9	None	R
20-Jul-21	Central Mudminnow	6.5	-	3.3	None	R
20-Jul-21	Central Mudminnow	6.2	-	3.4	None	R
20-Jul-21	Central Mudminnow	6.7	-	4.0	None	R
20-Jul-21	Central Mudminnow	8.4	-	6.7	None	R
20-Jul-21	Central Mudminnow	10.2	-	13.0	None	R
20-Jul-21	Central Mudminnow	9.1	-	11.3	None	R
20-Jul-21	Central Mudminnow	8.0	-	6.5	None	R
20-Jul-21	Central Mudminnow	7.4	-	6.3	None	R
20-Jul-21	Central Mudminnow	8.4	-	7.2	None	R
20-Jul-21	Central Mudminnow	7.8	-	5.6	None	R
20-Jul-21	Central Mudminnow	9.5	-	9.7	None	R
20-Jul-21	Central Mudminnow	8.0	-	7.5	None	R
20-Jul-21	Central Mudminnow	9.4	-	10.9	None	R
20-Jul-21	Central Mudminnow	9.2	-	8.2	None	R
20-Jul-21	Central Mudminnow	4.7	-	5.7	None	R
20-Jul-21	Central Mudminnow	2.4	-	0.4	None	R
20-Jul-21	Central Mudminnow	7.0	-	5.0	None	R
20-Jul-21	Central Mudminnow	9.0	-	9.6	None	R
20-Jul-21	Central Mudminnow	5.5	-	2.4	None	R
20-Jul-21	Central Mudminnow	6.0	-	3.0	None	R
20-Jul-21	Central Mudminnow	7.0	-	5.8	None	R
20-Jul-21	Central Mudminnow	6.8	-	4.8	None	R
20-Jul-21	Central Mudminnow	6.0	-	3.3	None	R
20-Jul-21	Central Mudminnow	5.5	-	2.3	None	R
20-Jul-21	Central Mudminnow	9.6	-	9.5	None	R
20-Jul-21	Central Mudminnow	8.2	-	6.3	None	R
20-Jul-21	Central Mudminnow	13.2	-	23.9	None	R
20-Jul-21	Central Mudminnow	6.9	-	4.2	None	R
20-Jul-21	Central Mudminnow	9.8	-	10.9	None	R
20-Jul-21	Central Mudminnow	4.4	-	1.6	None	R
20-Jul-21	Central Mudminnow	11.0	-	18.2	None	R
20-Jul-21	Central Mudminnow	6.8	-	4.1	None	R
20-Jul-21	Central Mudminnow	5.8	-	2.9	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
20-Jul-21	Central Mudminnow	6.0	-	2.5	None	R
20-Jul-21	Central Mudminnow	9.3	-	9.8	None	R
20-Jul-21	Central Mudminnow	10.5	-	1.2	None	R
20-Jul-21	Central Mudminnow	7.0	-	4.5	None	R
20-Jul-21	Central Mudminnow	10.3	-	14.2	None	R
20-Jul-21	Central Mudminnow	7.2	-	5.3	None	R
20-Jul-21	Central Mudminnow	7.3	-	4.6	None	R
20-Jul-21	Central Mudminnow	8.2	-	3.7	None	R
20-Jul-21	Central Mudminnow	6.3	-	3.1	None	R
20-Jul-21	Central Mudminnow	6.9	-	4.2	None	R
20-Jul-21	Central Mudminnow	10.8	-	15.6	None	R
20-Jul-21	Central Mudminnow	6.8	-	2.8	None	R
20-Jul-21	Central Mudminnow	7.8	-	5.9	None	R
20-Jul-21	Central Mudminnow	10.2	-	12.8	None	R
20-Jul-21	Central Mudminnow	5.5	-	3.0	None	R
20-Jul-21	Central Mudminnow	6.8	-	5.0	None	R
20-Jul-21	Central Mudminnow	6.0	-	4.5	None	R
20-Jul-21	Central Mudminnow	5.4	-	4.0	None	R
20-Jul-21	Central Mudminnow	5.0	-	2.7	None	R
20-Jul-21	Central Mudminnow	6.0	-	4.0	None	R
20-Jul-21	Central Mudminnow	9.9	-	13.1	None	R
20-Jul-21	Central Mudminnow	5.3	-	3.0	None	R
20-Jul-21	Central Mudminnow	7.8	-	7.6	None	R
20-Jul-21	Central Mudminnow	8.5	-	8.8	None	R
20-Jul-21	Central Mudminnow	7.0	-	5.4	None	R
20-Jul-21	Central Mudminnow	8.3	-	8.0	None	R
20-Jul-21	Central Mudminnow	6.7	-	5.0	None	R
20-Jul-21	Central Mudminnow	5.8	-	3.8	None	R
20-Jul-21	Central Mudminnow	8.4	-	8.7	None	R
20-Jul-21	Central Mudminnow	6.0	-	4.4	None	R
20-Jul-21	Central Mudminnow	6.7	-	4.8	None	R
20-Jul-21	Central Mudminnow	5.1	-	3.0	None	R
20-Jul-21	Central Mudminnow	4.4	-	0.5	None	R
21-Jul-21	Cyprinid	1.8	1.5	0.1	None	R
20-Jul-21	Cyprinid YOY	2.8	2.6	0.7	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
20-Jul-21	Cyprinid YOY	3.1	3.2	0.5	None	R
20-Jul-21	Cyprinid YOY	3.1	3.0	3.3	None	R
20-Jul-21	Cyprinid YOY	2.1	2.0	-	None	R
21-Jul-21	Cyprinid YOY	2.4	2.2	0.2	None	R
20-Jul-21	Fathead Minnow	7.0	6.5	4.2	None	R
20-Jul-21	Fathead Minnow	7.5	6.5	4.0	dead	M
20-Jul-21	Fathead Minnow	6.7	6.2	3.5	dead	M
21-Jul-21	Fathead Minnow	7.0	6.6	4.1	None	R
21-Jul-21	Fathead Minnow	7.2	6.6	4.9	None	R
21-Jul-21	Fathead Minnow	6.5	5.5	2.9	None	R
21-Jul-21	Fathead Minnow	7.2	6.8	5.7	Growth on lateral line left	R
21-Jul-21	Fathead Minnow	3.1	2.8	0.3	None	R
21-Jul-21	Fathead Minnow	7.4	7.0	5.2	None	R
21-Jul-21	Fathead Minnow	3.4	3.2	0.5	None	R
21-Jul-21	Fathead Minnow	7.0	6.5	5.0	None	R
21-Jul-21	Fathead Minnow	6.8	6.3	4.6	None	R
21-Jul-21	Fathead Minnow	5.9	5.6	3.0	None	R
21-Jul-21	Fathead Minnow	6.2	5.7	1.7	None	R
21-Jul-21	Fathead Minnow	3.6	3.3	0.4	None	R
21-Jul-21	Fathead Minnow	7.4	7.0	5.6	None	R
21-Jul-21	Fathead Minnow	3.4	3.0	0.6	M - dead	M
21-Jul-21	Fathead Minnow	3.1	2.8	0.3	None	R
21-Jul-21	Fathead Minnow	6.4	5.9	3.5	None	R
21-Jul-21	Fathead Minnow	6.8	6.3	0.4	None	R
21-Jul-21	Fathead Minnow	6.9	6.4	4.1	None	R
21-Jul-21	Fathead Minnow	4.0	3.6	0.8	M - dead	M
21-Jul-21	Fathead Minnow	4.3	4.1	0.8	None	R
21-Jul-21	Fathead Minnow	3.6	3.4	0.5	None	R
21-Jul-21	Fathead Minnow	3.9	3.6	0.6	None	R
21-Jul-21	Fathead Minnow	4.1	3.8	0.6	None	R
21-Jul-21	Fathead Minnow	4.1	3.7	0.8	None	R
21-Jul-21	Fathead Minnow	3.1	2.9	0.3	None	R
21-Jul-21	Fathead Minnow	4.1	3.8	0.7	None	R
21-Jul-21	Fathead Minnow	7.1	6.7	3.9	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Fathead Minnow	7.5	7.1	4.4	None	R
21-Jul-21	Fathead Minnow	6.2	5.8	2.8	None	R
20-Jul-21	Finescale Dace	7.8	7.3	4.7	None	R
20-Jul-21	Finescale Dace	8.4	8.0	7.1	None	R
20-Jul-21	Finescale Dace	9.5	9.2	11.1	None	R
20-Jul-21	Finescale Dace	9.6	9.2	8.7	None	R
20-Jul-21	Finescale Dace	7.4	7.0	5.9	None	R
20-Jul-21	Finescale Dace	8.1	7.7	6.3	None	R
20-Jul-21	Finescale Dace	8.7	8.2	7.2	None	R
20-Jul-21	Finescale Dace	7.0	6.7	4.5	None	R
20-Jul-21	Finescale Dace	3.1	3.0	7.0	None	R
20-Jul-21	Finescale Dace	3.3	3.1	1.1	None	R
20-Jul-21	Finescale Dace	10.4	9.8	1.3	None	R
20-Jul-21	Finescale Dace	8.6	8.2	9.3	None	R
20-Jul-21	Finescale Dace	7.5	7.2	5.6	None	R
20-Jul-21	Finescale Dace	8.5	8.1	5.0	None	R
20-Jul-21	Finescale Dace	7.2	6.7	7.6	None	R
20-Jul-21	Finescale Dace	4.3	4.1	5.0	None	R
20-Jul-21	Finescale Dace	8.5	8.0	6.3	None	R
20-Jul-21	Finescale Dace	7.6	7.4	7.0	None	R
20-Jul-21	Finescale Dace	7.4	7.2	5.2	None	R
20-Jul-21	Finescale Dace	7.8	7.3	5.7	None	R
20-Jul-21	Finescale Dace	4.3	4.0	1.1	None	R
20-Jul-21	Finescale Dace	6.7	6.3	4.2	RED BELLY HYBRID	R
20-Jul-21	Finescale Dace	6.7	6.2	3.9	None	R
20-Jul-21	Finescale Dace	6.9	6.5	3.8	RED BELLY HYBRID	R
20-Jul-21	Finescale Dace	8.0	7.7	4.5	None	R
20-Jul-21	Finescale Dace	9.6	9.2	10.6	None	R
20-Jul-21	Finescale Dace	8.8	8.3	8.1	RED BELLY HYBRID	R
21-Jul-21	Finescale Dace	9.1	8.6	8.2	86	R
21-Jul-21	Finescale Dace	7.1	6.5	4.7	None	R
21-Jul-21	Finescale Dace	7.3	6.9	4.5	None	R
21-Jul-21	Finescale Dace	9.3	8.8	7.8	None	R
21-Jul-21	Finescale Dace	8.7	8.2	6.6	None	R
21-Jul-21	Finescale Dace	9.1	8.4	9.6	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Finescale Dace	9.0	8.5	8.2	None	R
21-Jul-21	Finescale Dace	4.5	3.6	0.5	None	R
21-Jul-21	Finescale Dace	9.4	8.9	9.0	None	R
21-Jul-21	Finescale Dace	7.1	6.6	4.8	None	R
21-Jul-21	Finescale Dace	9.7	9.1	9.9	None	R
21-Jul-21	Finescale Dace	9.5	9.1	10.6	None	R
21-Jul-21	Finescale Dace	8.9	8.3	9.2	None	R
21-Jul-21	Finescale Dace	8.0	7.5	6.5	None	R
21-Jul-21	Finescale Dace	8.4	8.0	7.6	None	R
21-Jul-21	Finescale Dace	3.0	3.7	0.7	None	R
21-Jul-21	Finescale Dace	4.0	3.7	0.7	None	R
21-Jul-21	Northern Redbelly Dace	3.2	2.9	0.3	None	R
21-Jul-21	Northern Redbelly Dace	3.8	3.6	0.8	M - dead	M
21-Jul-21	Northern Redbelly Dace	3.1	2.9	0.4	None	R
21-Jul-21	Northern Redbelly Dace	2.4	2.1	0.2	None	R
21-Jul-21	Northern Redbelly Dace	3.7	3.4	0.8	None	R
21-Jul-21	Northern Redbelly Dace	4.1	3.7	0.7	None	R
21-Jul-21	Northern Redbelly Dace	4.1	3.8	0.7	None	R
21-Jul-21	Northern Redbelly Dace	3.5	3.3	0.5	None	R
21-Jul-21	Northern Redbelly Dace	5.6	5.3	2.0	None	R
21-Jul-21	Northern Redbelly Dace	5.9	5.5	2.1	None	R
21-Jul-21	Northern Redbelly Dace	5.9	5.6	2.0	None	R
21-Jul-21	Northern Redbelly Dace	4.1	3.8	0.8	None	R
21-Jul-21	Northern Redbelly Dace	4.2	3.9	0.8	None	R
21-Jul-21	Northern Redbelly Dace	6.3	5.9	2.2	None	R
21-Jul-21	Northern Redbelly Dace	4.5	4.2	0.9	FSD HYBRID	R
21-Jul-21	Northern Redbelly Dace	6.1	5.6	2.0	None	R
21-Jul-21	Northern Redbelly Dace	4.1	3.8	0.6	None	R
21-Jul-21	Northern Redbelly Dace	5.6	5.3	1.8	None	R
21-Jul-21	Northern Redbelly Dace	5.8	5.4	1.9	None	R
21-Jul-21	Northern Redbelly Dace	6.3	5.8	2.3	None	R
21-Jul-21	Northern Redbelly Dace	6.1	5.7	2.6	None	R
21-Jul-21	Northern Redbelly Dace	6.1	5.6	2.6	None	R
21-Jul-21	Northern Redbelly Dace	6.2	5.9	2.2	None	R
21-Jul-21	Northern Redbelly Dace	5.6	5.3	1.3	None	R

Processing Date	Fish Species	Total Length (cm)	Fork Length (cm)	Body Weight (g)	Abnormalities	Fate
21-Jul-21	Northern Redbelly Dace	5.9	5.5	1.9	None	R
21-Jul-21	Northern Redbelly Dace	6.2	5.8	2.5	None	R
21-Jul-21	Northern Redbelly Dace	5.6	5.4	2.2	None	R
21-Jul-21	Northern Redbelly Dace	5.8	5.4	1.9	None	R
21-Jul-21	Northern Redbelly Dace	5.8	5.4	1.7	None	R
21-Jul-21	Northern Redbelly Dace	5.9	5.6	2.1	None	R
21-Jul-21	Northern Redbelly Dace	5.1	4.8	1.1	None	R
21-Jul-21	Northern Redbelly Dace	6.1	5.9	2.2	None	R
21-Jul-21	Northern Redbelly Dace	5.6	5.3	1.8	None	R
21-Jul-21	Northern Redbelly Dace	5.7	5.4	1.9	None	R
21-Jul-21	Northern Redbelly Dace	5.7	5.4	2.2	None	R
21-Jul-21	Northern Redbelly Dace	6.6	6.2	2.5	None	R
21-Jul-21	Northern Redbelly Dace	5.7	5.3	1.8	None	R
21-Jul-21	Northern Redbelly Dace	6.8	6.5	2.5	None	R
21-Jul-21	Northern Redbelly Dace	5.9	5.5	1.8	None	R
21-Jul-21	Northern Redbelly Dace	5.5	5.2	1.7	None	R

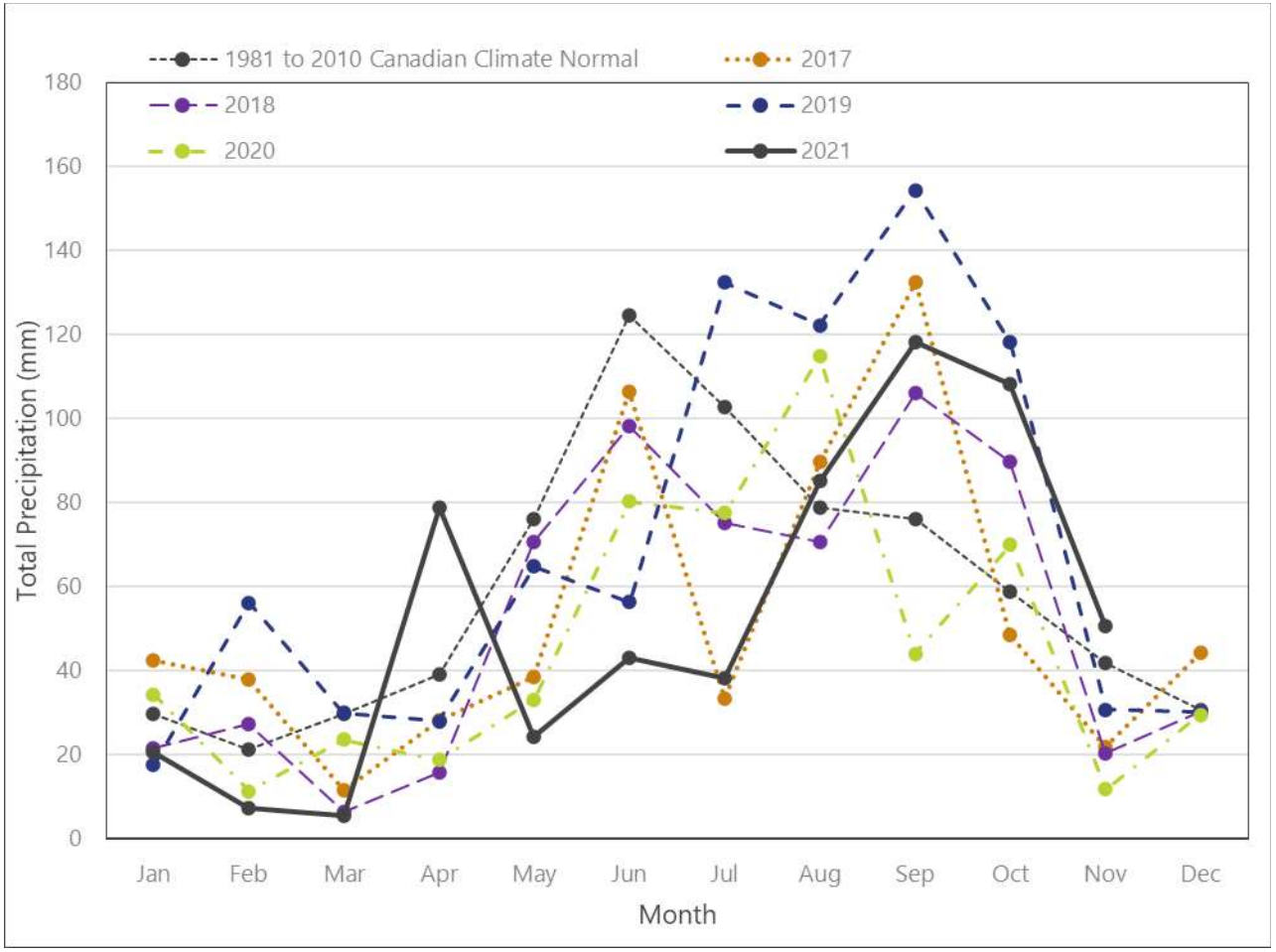
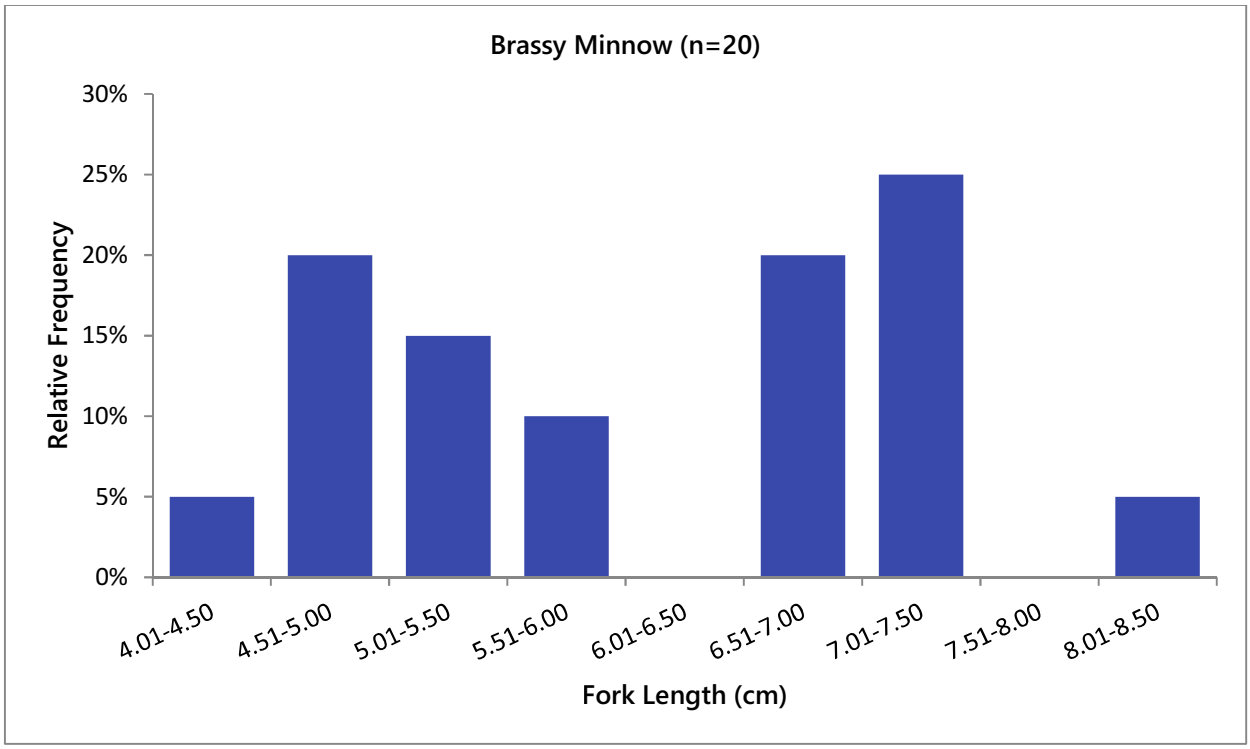


Figure A-1: Precipitation Values Measured in the Vicinity of Rainy River Mine



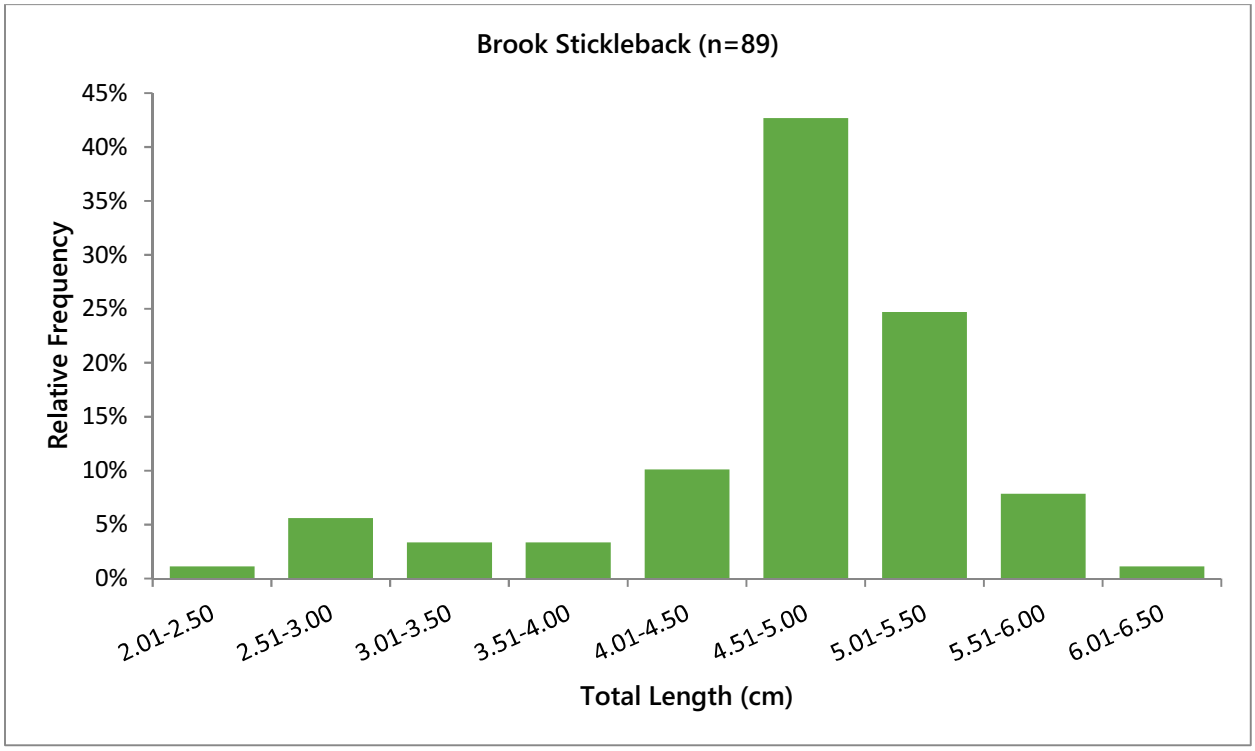
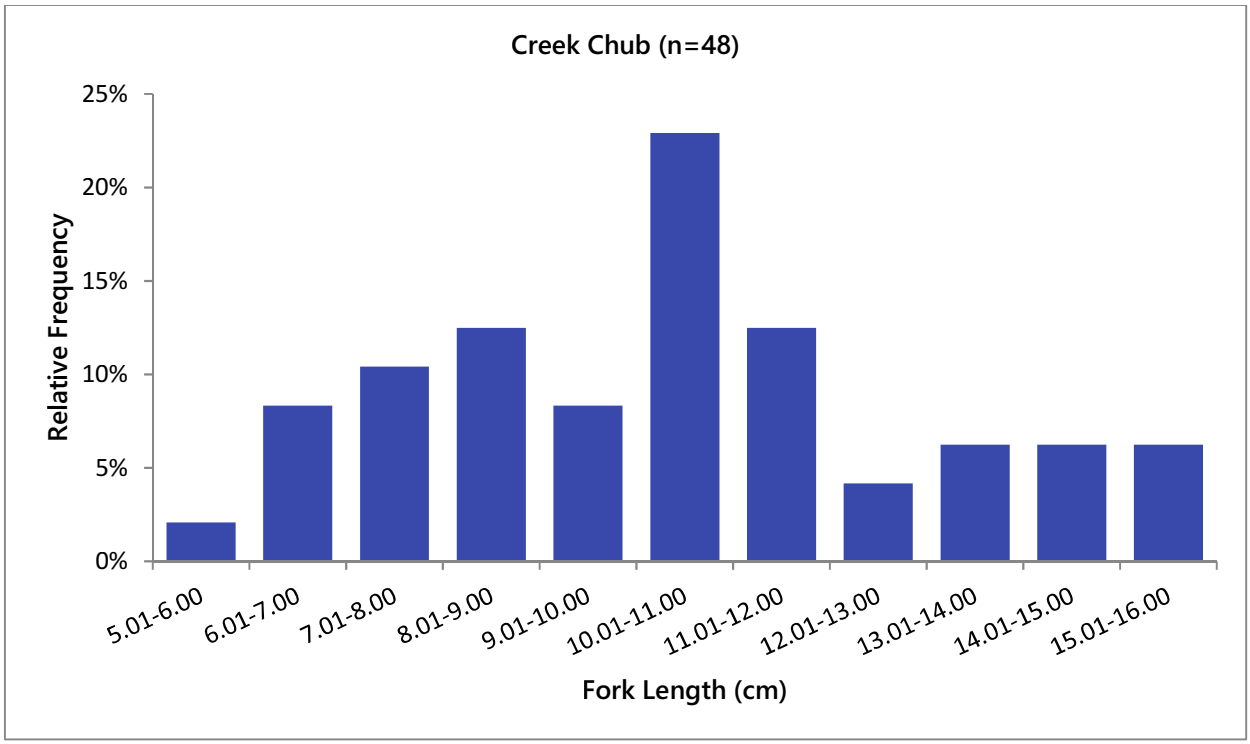


Figure A-2: Length-frequency Distributions for Fish Collected at West Creek Diversion Channel, Rainy River Mine 2021

Note: Central Mudminnow (n=4), Finescale Dace (n=3) and Johnny Darter (n=1) not plotted due to low capture



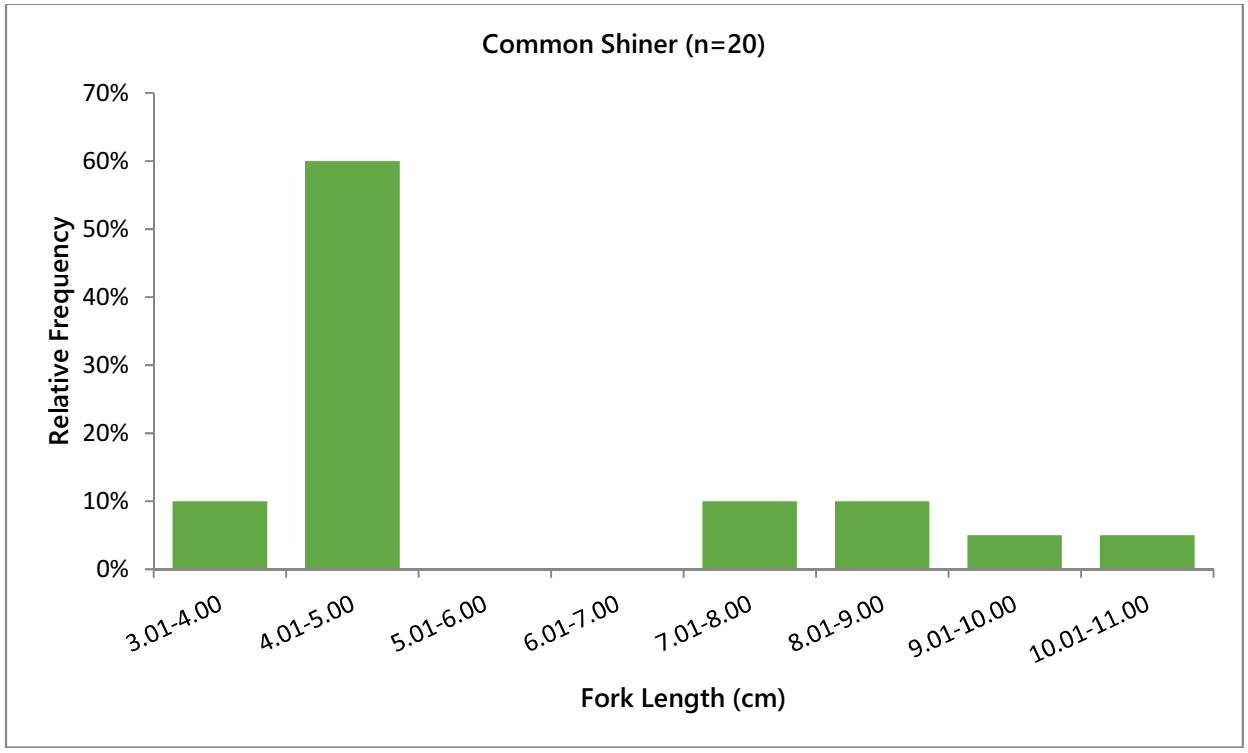
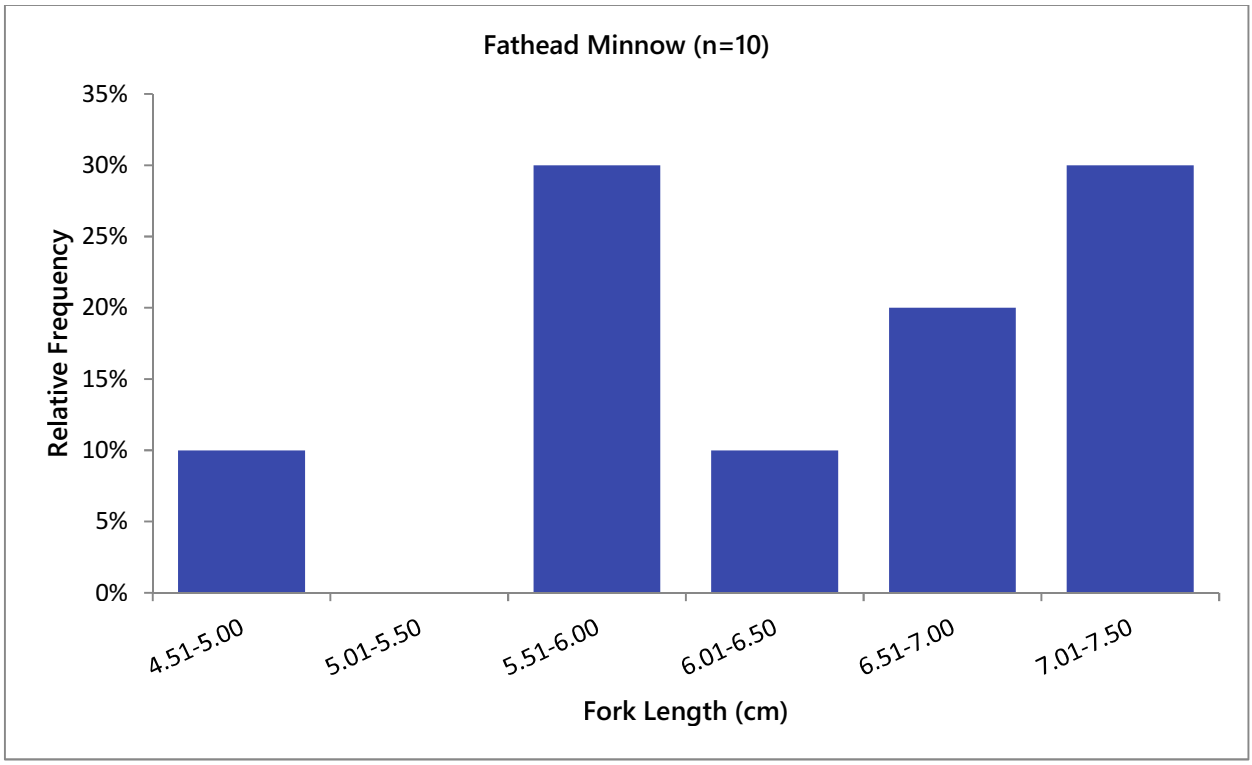


Figure A-3: Length-frequency Distributions for Fish Collected at West Creek Diversion Channel, Rainy River Mine 2021

Note: Central Mudminnow (n=4), Finescale Dace (n=3) and Johnny Darter (n=1) not plotted due to low capture



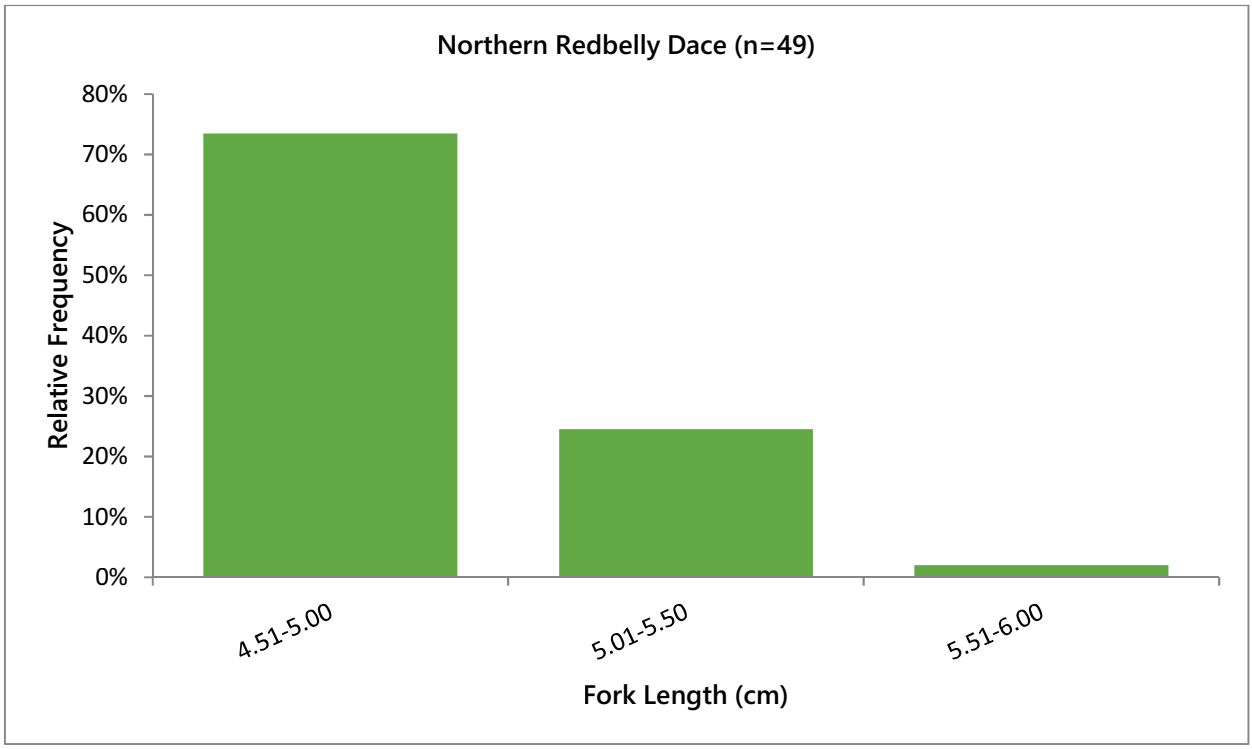
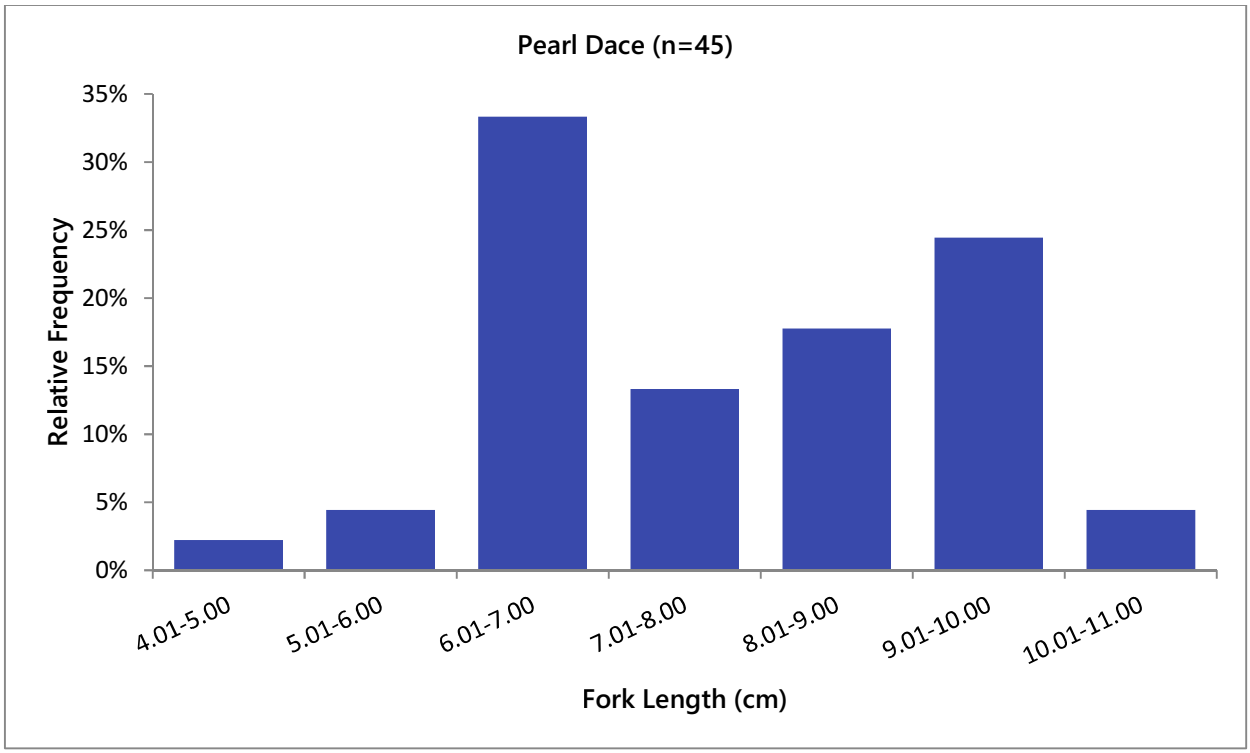


Figure A-4: Length-frequency Distributions for Fish Collected at West Creek Diversion Channel, Rainy River Mine 2021

Note: Central Mudminnow (n=4), Finescale Dace (n=3) and Johnny Darter (n=1) not plotted due to low capture



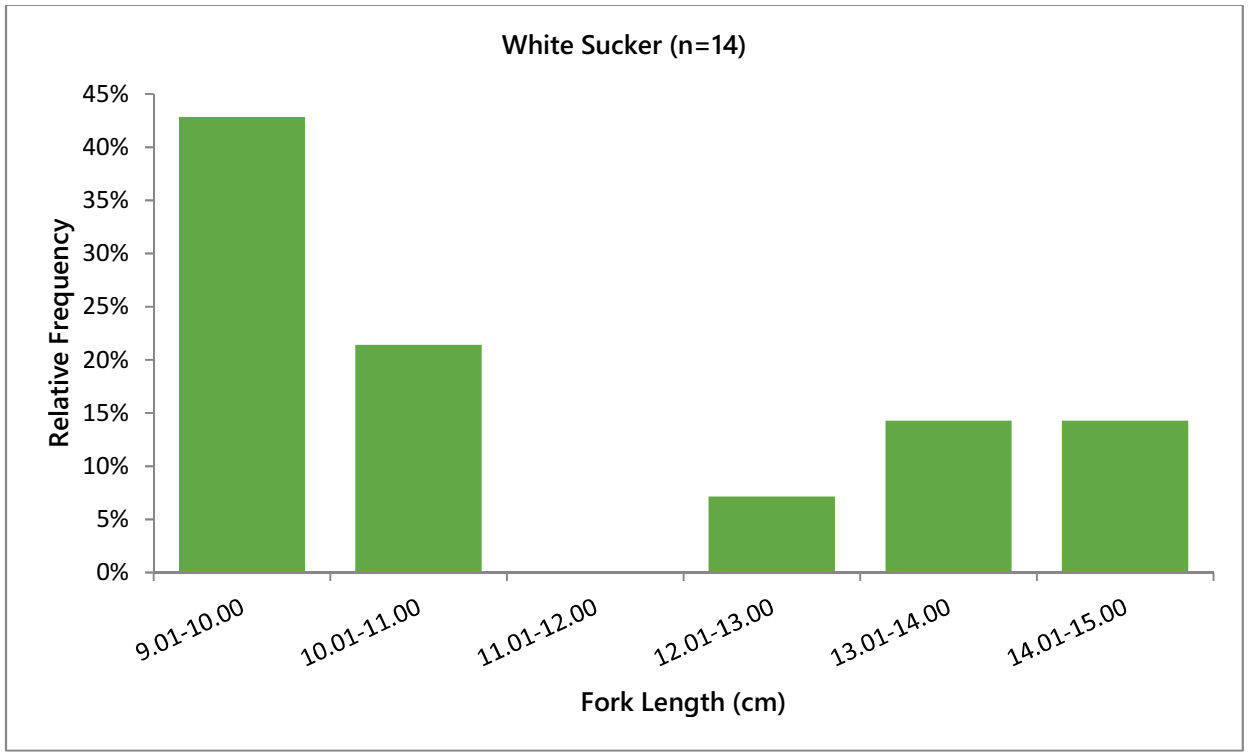


Figure A-5: Length-frequency Distributions for Fish Collected at West Creek Diversion Channel, Rainy River Mine 2021

Note: Central Mudminnow (n=4), Finescale Dace (n=3) and Johnny Darter (n=1) not plotted due to low capture

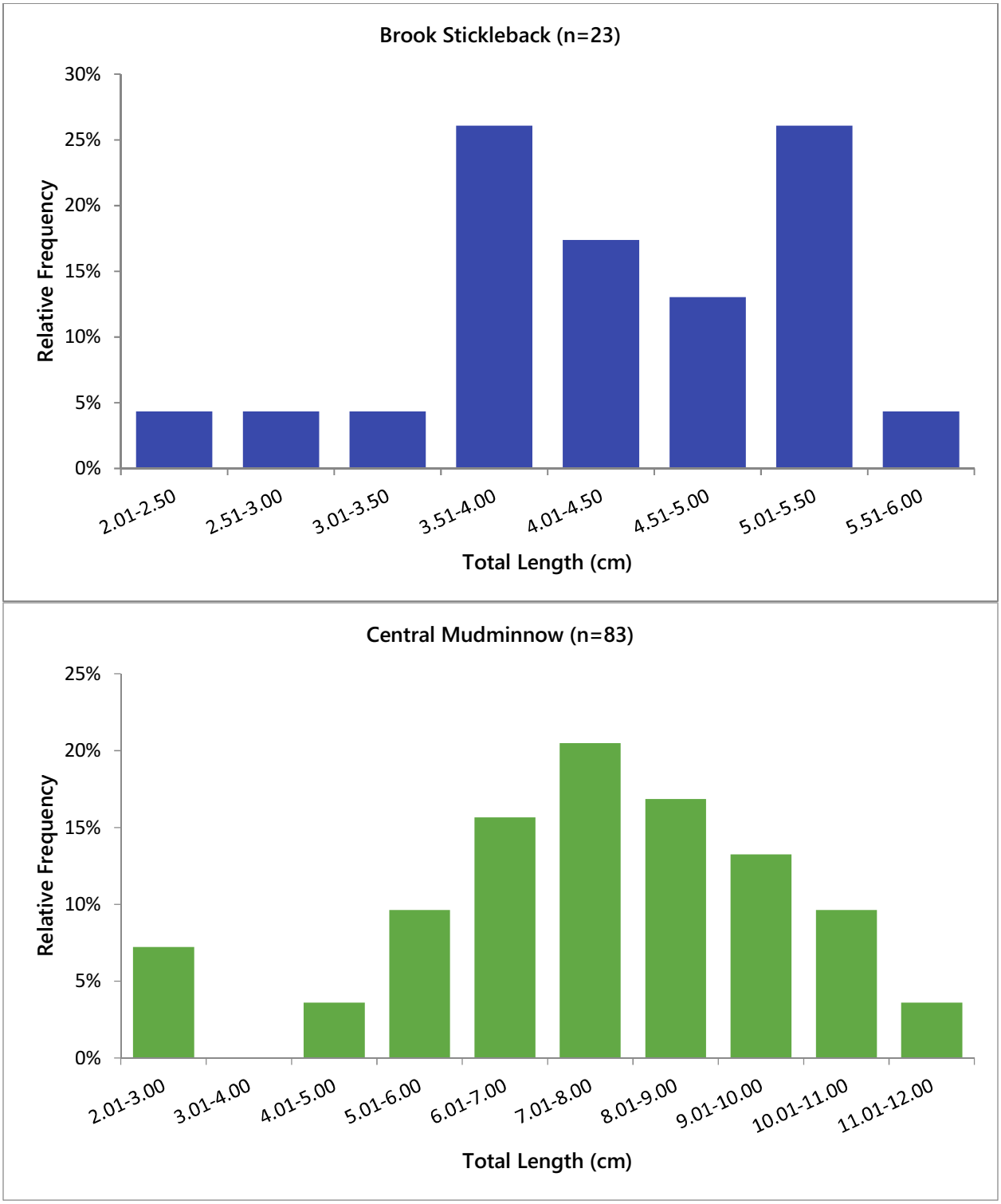


Figure A-3: Length-frequency Distributions for Fish Collected at Clark Creek Diversion Channel, Rainy River Mine 2021

Note: Brassy Minnow (n=1) and Northern Redbelly Dace (n=1) not plotted due to low capture.

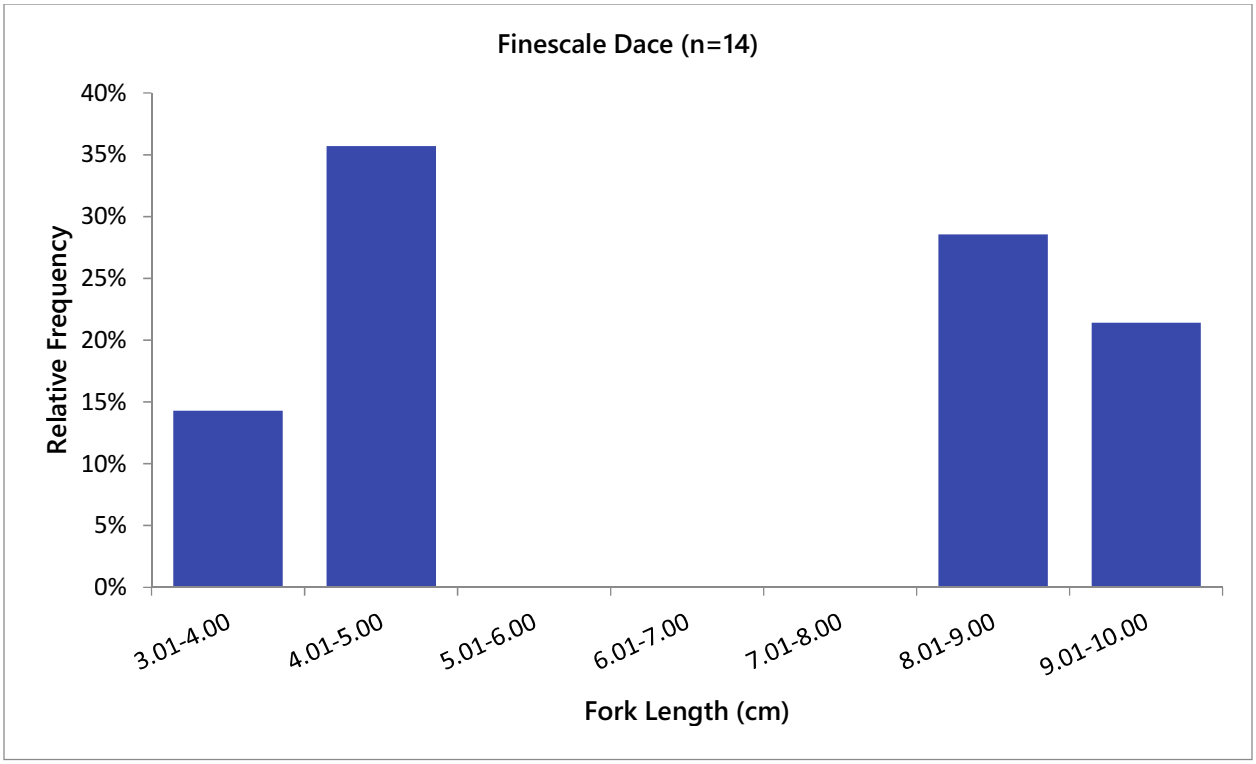


Figure A-3: Length-frequency Distributions for Fish Collected at Clark Creek Diversion Channel, Rainy River Mine 2021

Note: Brassy Minnow (n=1) and Northern Redbelly Dace (n=1) not plotted due to low capture.

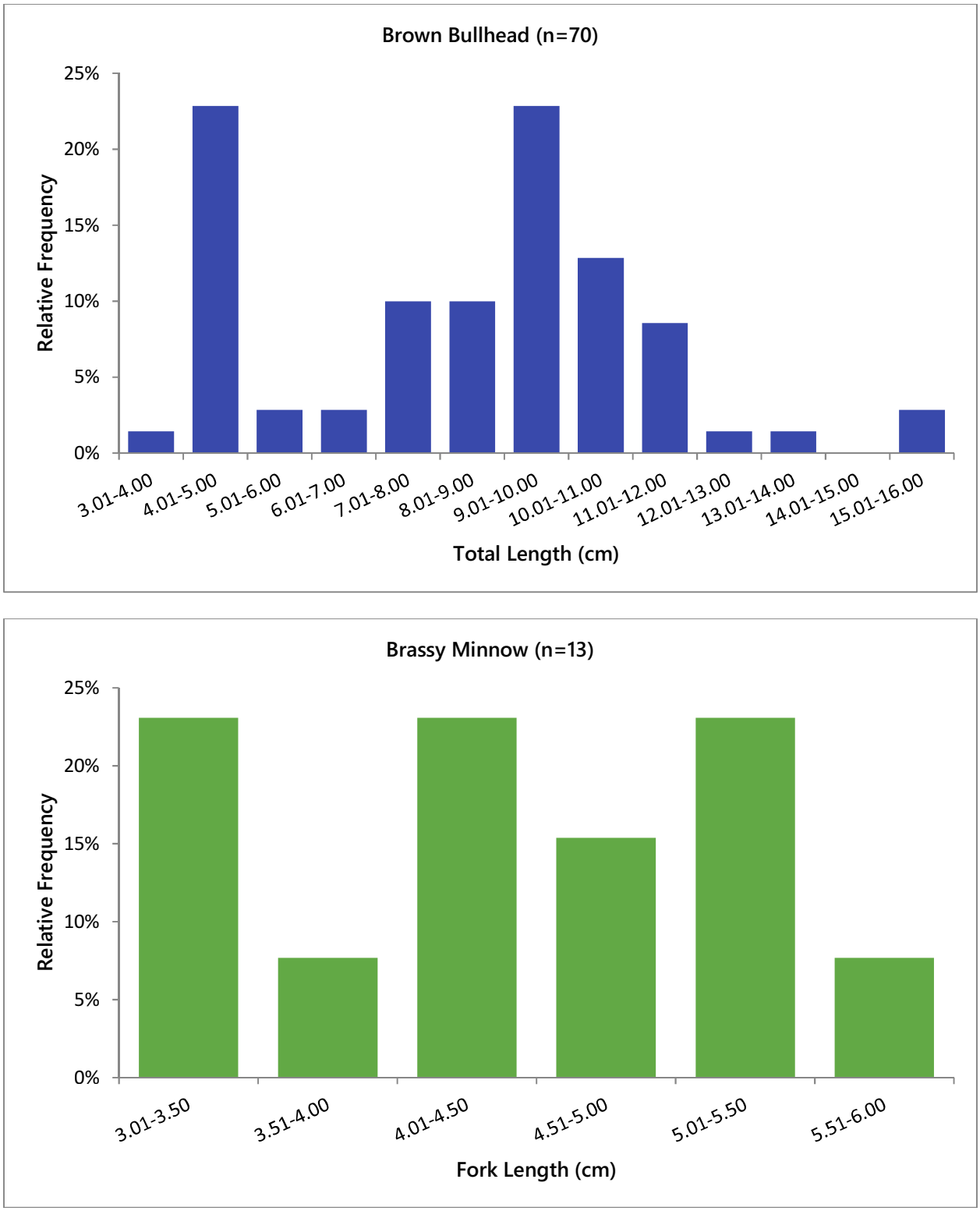


Figure A-4: Length-frequency Distributions for Fish Collected at Stockpile Pond, Rainy River Mine 2021

Note: Pearl Dace (n=7) not plotted due to low capture.

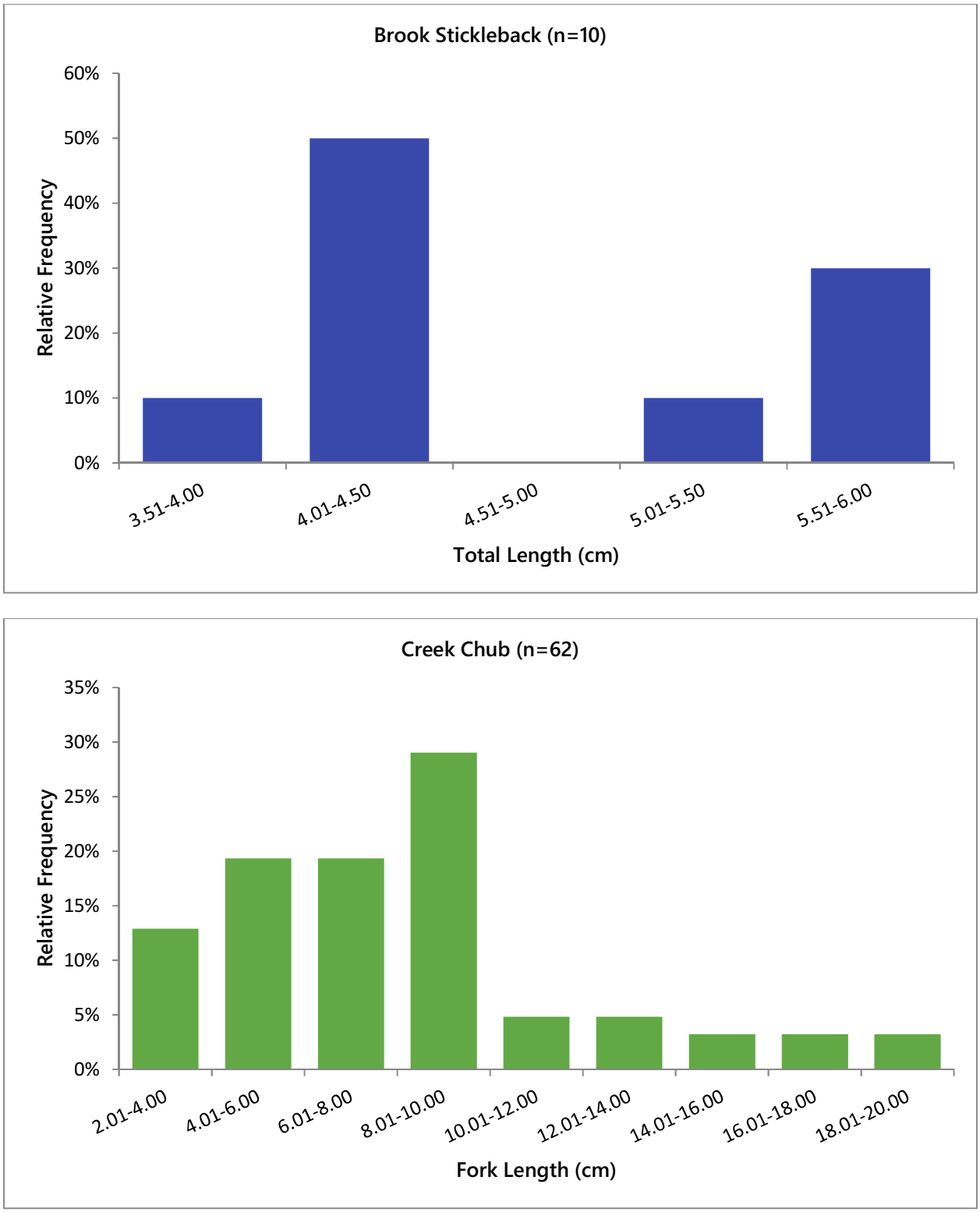


Figure A-4: Length-frequency Distributions for Fish Collected at Stockpile Pond, Rainy River Mine 2021

Note: Pearl Dace (n=7) not plotted due to low capture.

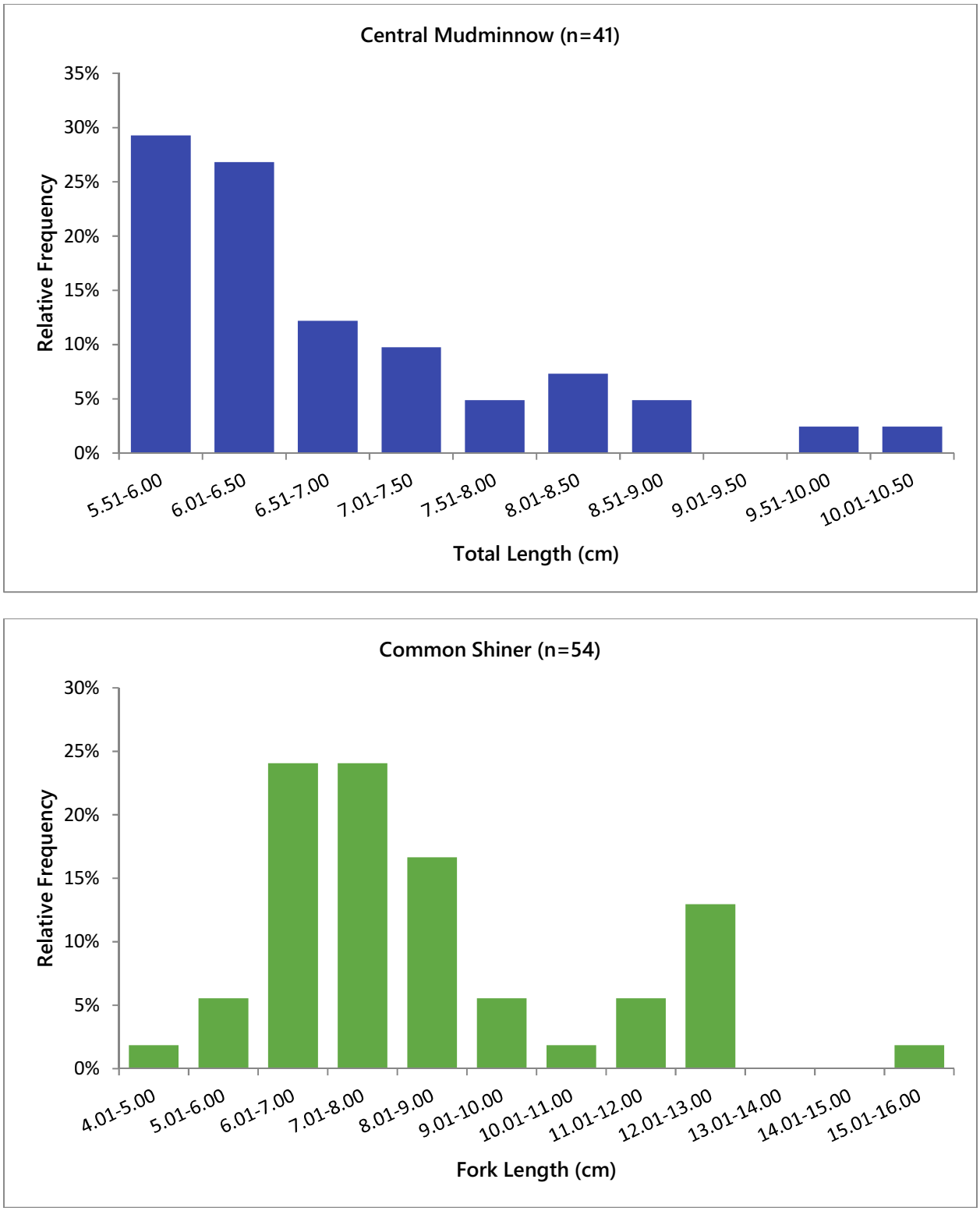


Figure A-4: Length-frequency Distributions for Fish Collected at Stockpile Pond, Rainy River Mine 2021

Note: Pearl Dace (n=7) not plotted due to low capture.

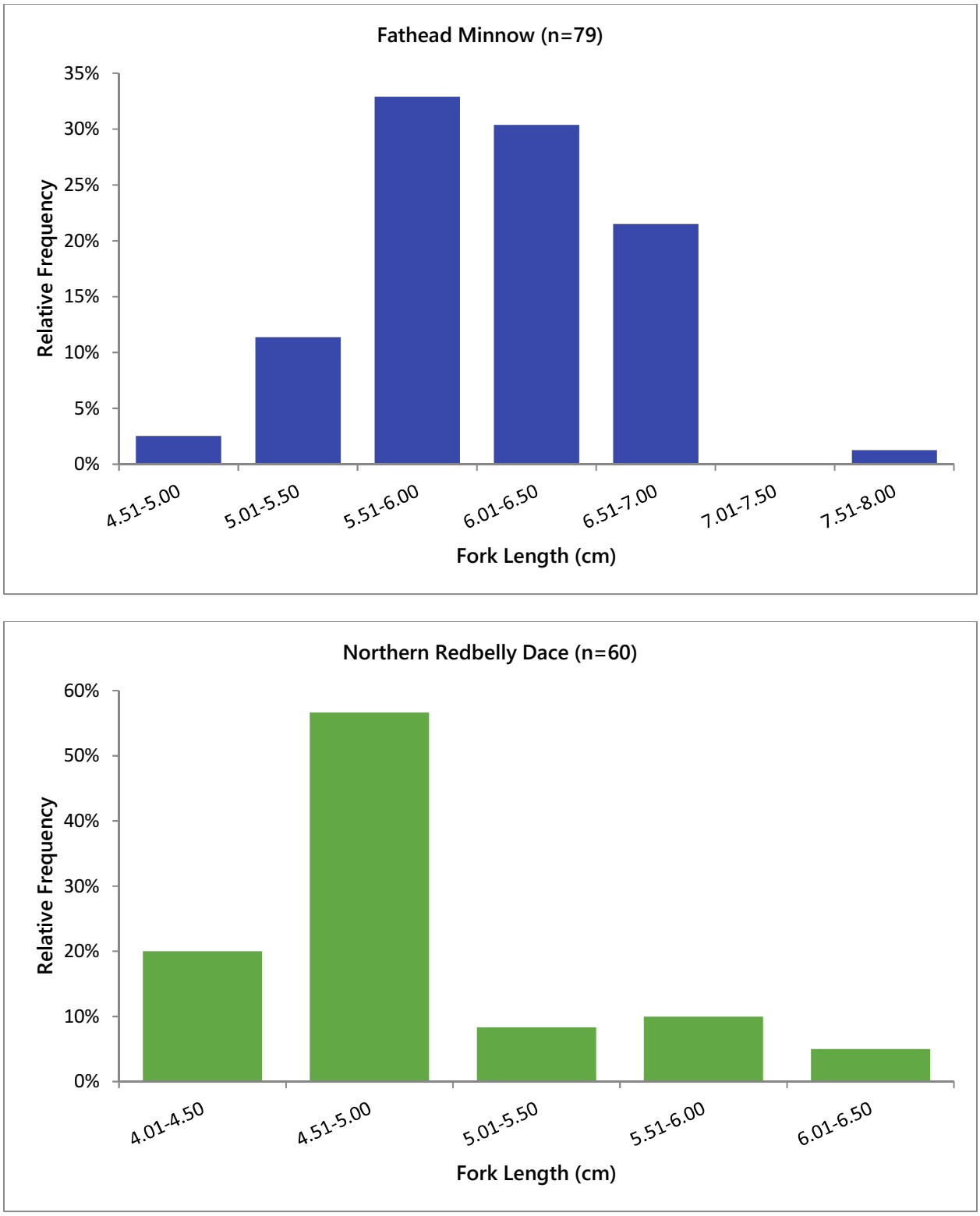


Figure A-4: Length-frequency Distributions for Fish Collected at Stockpile Pond, Rainy River Mine 2021

Note: Pearl Dace (n=7) not plotted due to low capture.

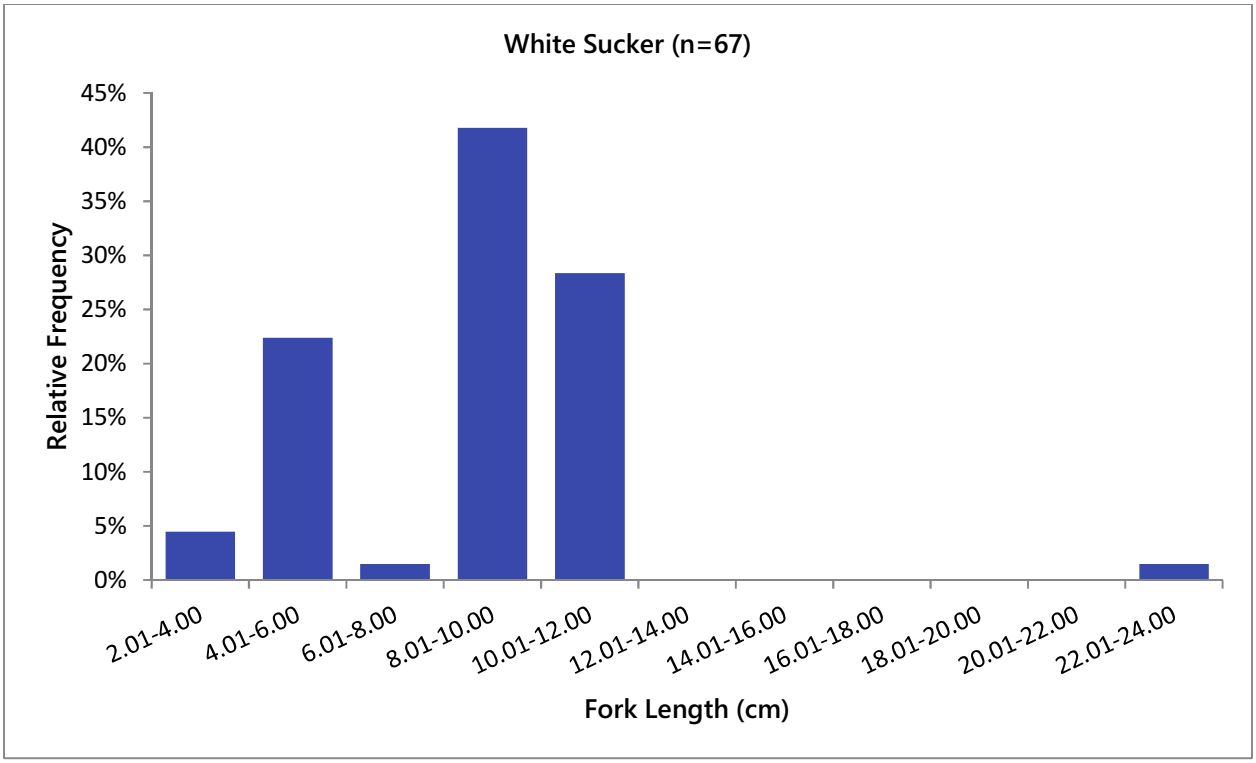
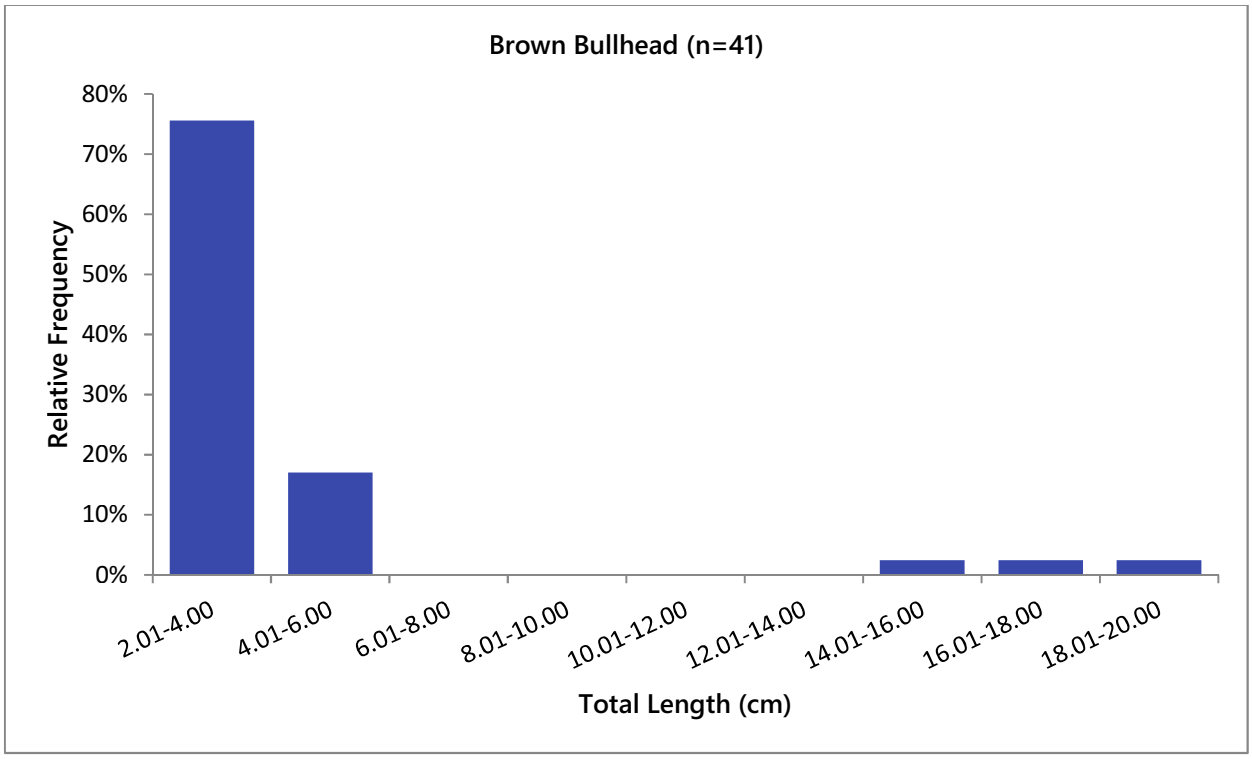


Figure A-4: Length-frequency Distributions for Fish Collected at Stockpile Pond, Rainy River Mine 2021

Note: Pearl Dace (n=7) not plotted due to low capture.



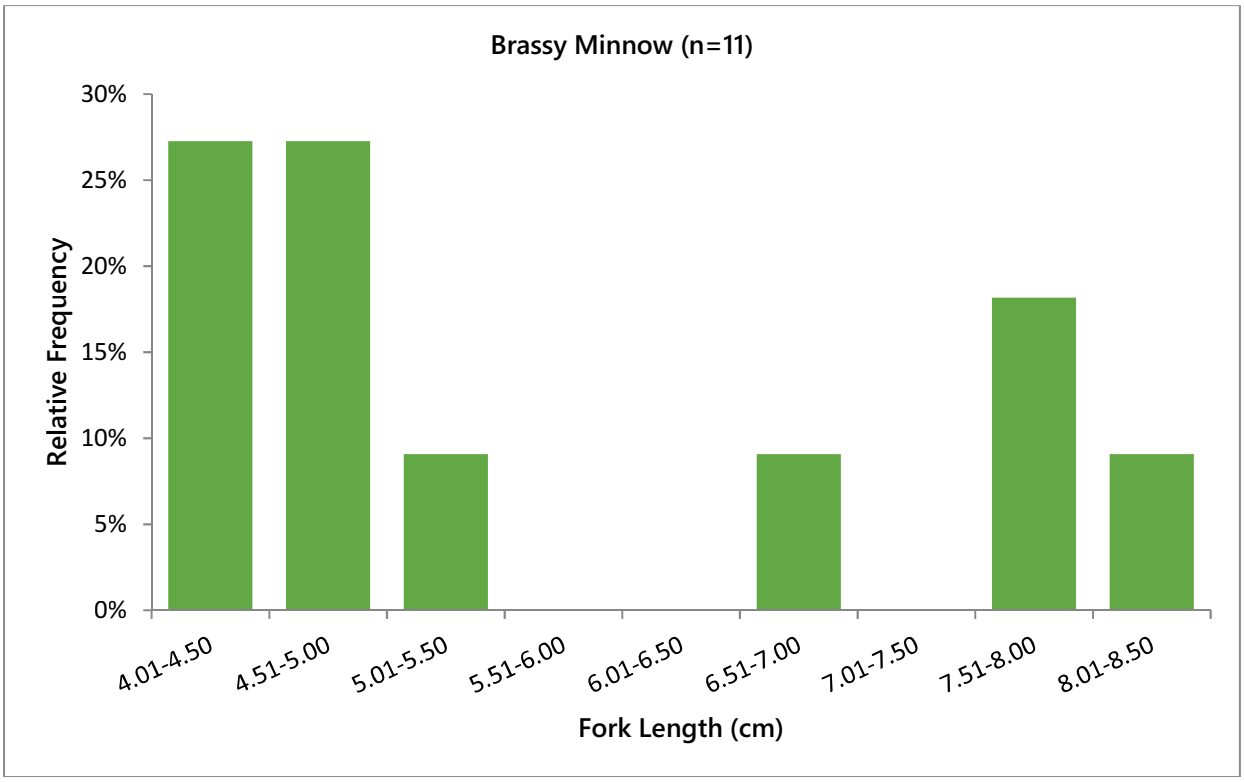
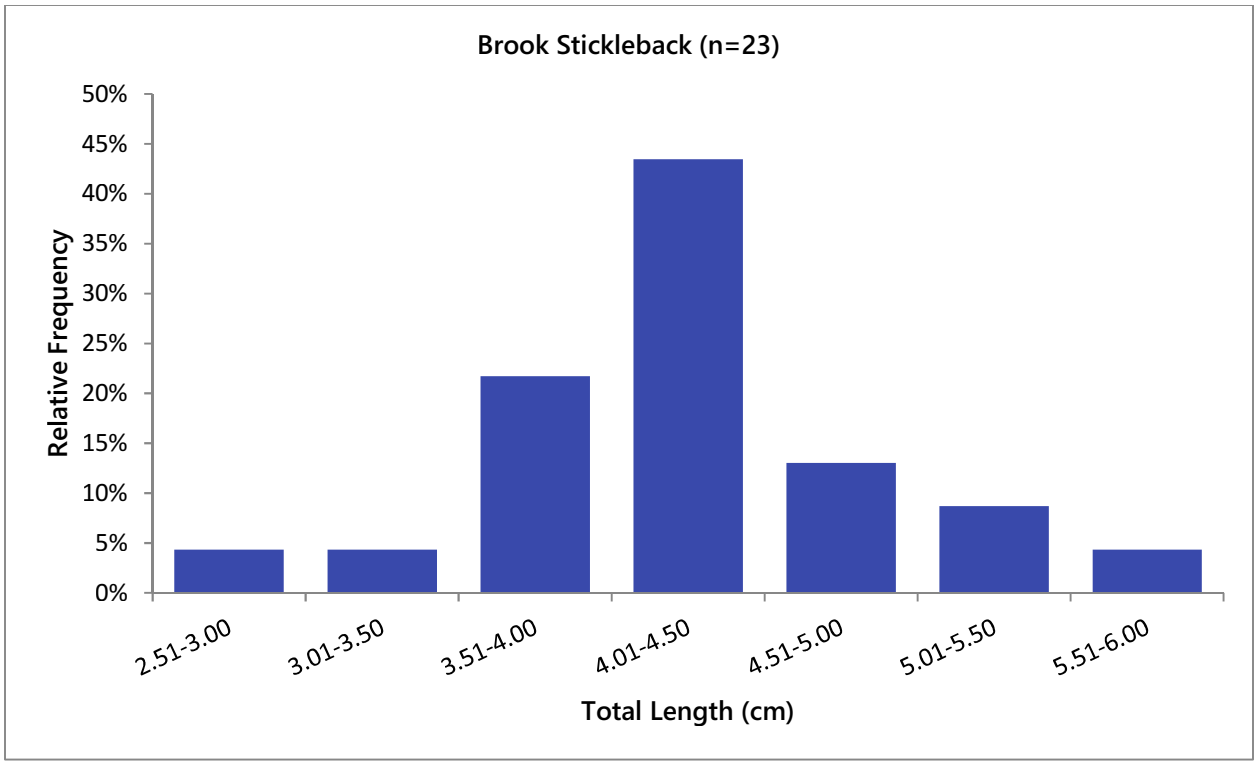


Figure A-5: Length-frequency Distributions for Fish Collected at West Creek Pond, Rainy River Mine 2021



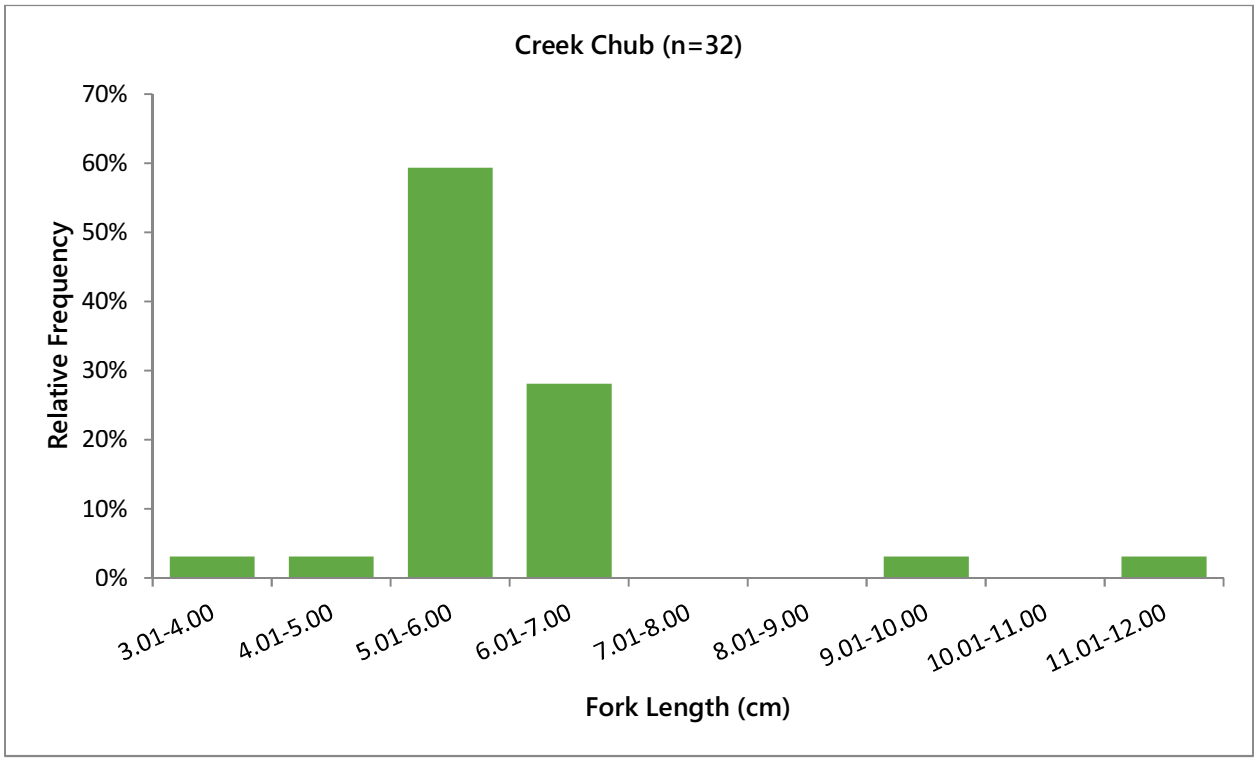


Figure A-5: Length-frequency Distributions for Fish Collected at West Creek Pond, Rainy River Mine 2021

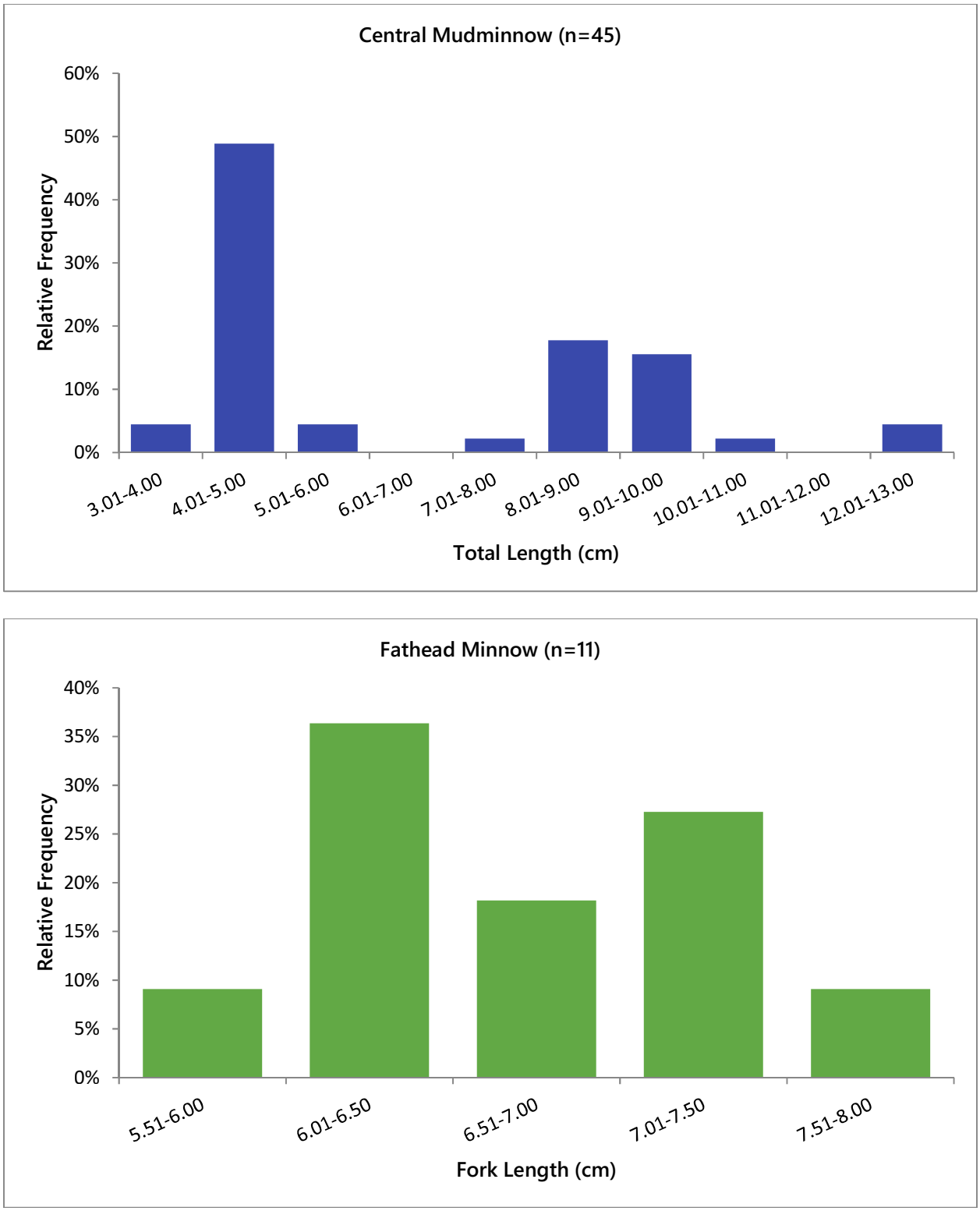


Figure A-5: Length-frequency Distributions for Fish Collected at West Creek Pond, Rainy River Mine 2021

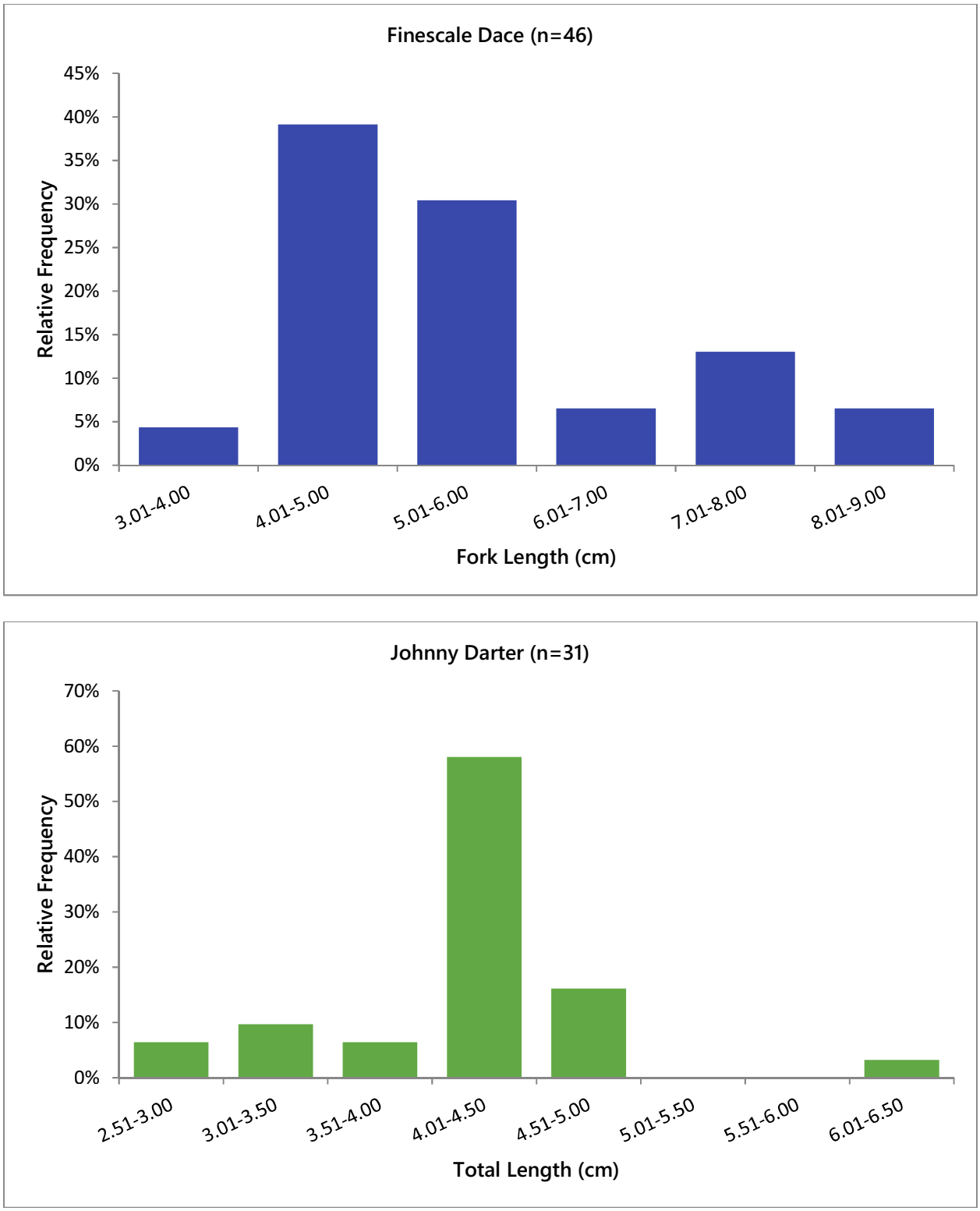


Figure A-5: Length-frequency Distributions for Fish Collected at West Creek Pond, Rainy River Mine 2021

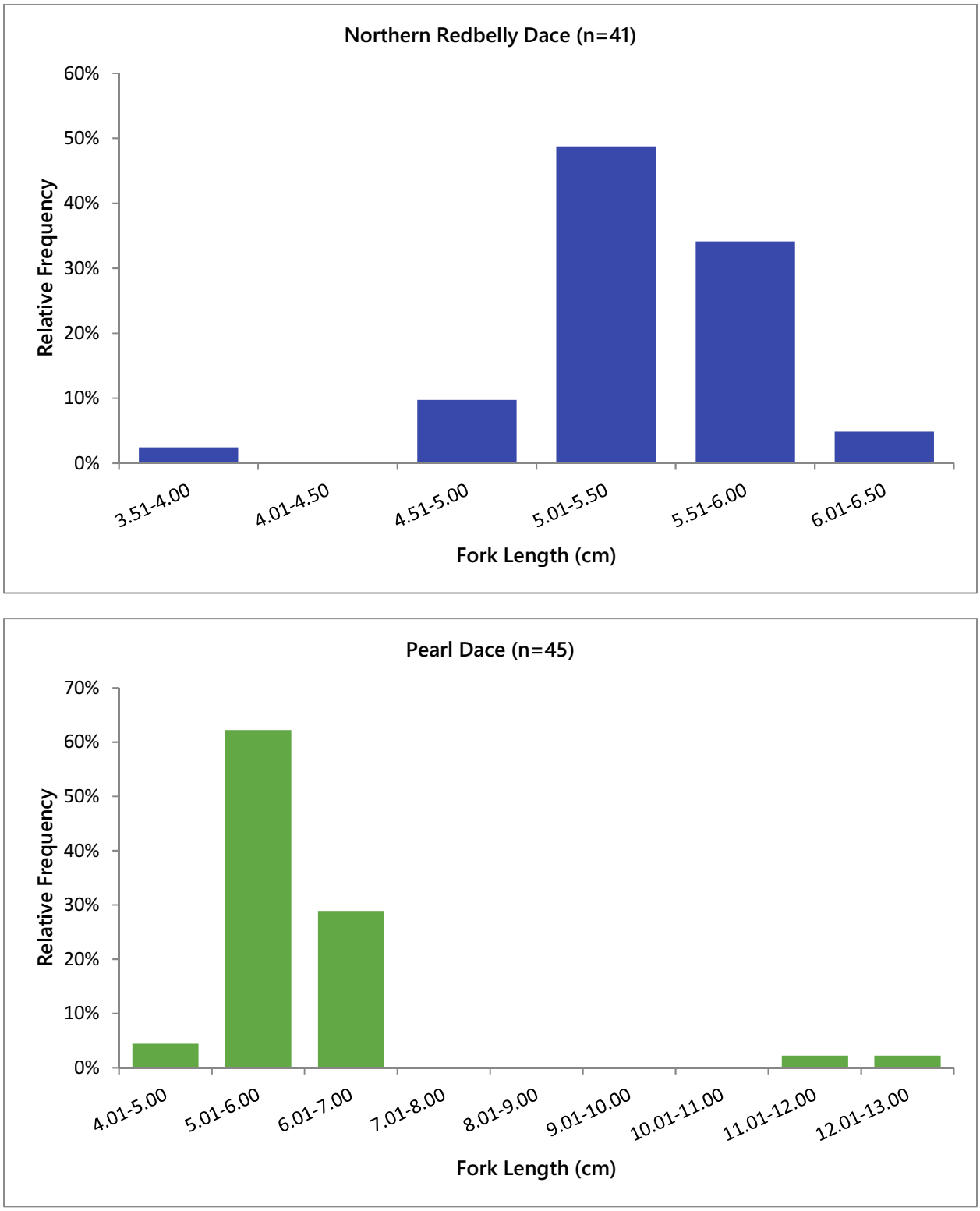


Figure A-5: Length-frequency Distributions for Fish Collected at West Creek Pond, Rainy River Mine 2021

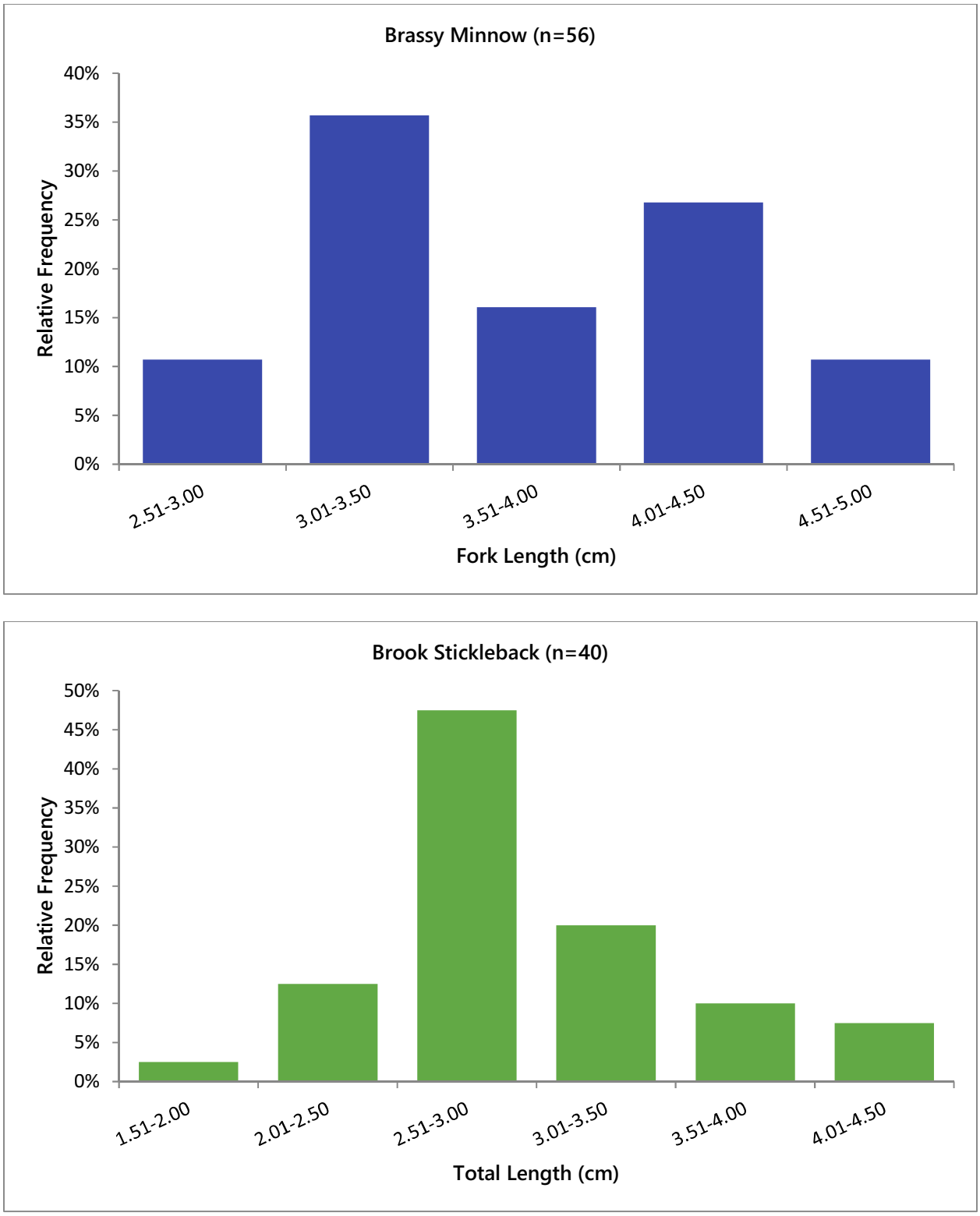


Figure A-6: Length-frequency Distributions for Fish Collected at Clark Creek Pond, Rainy River Mine 2021

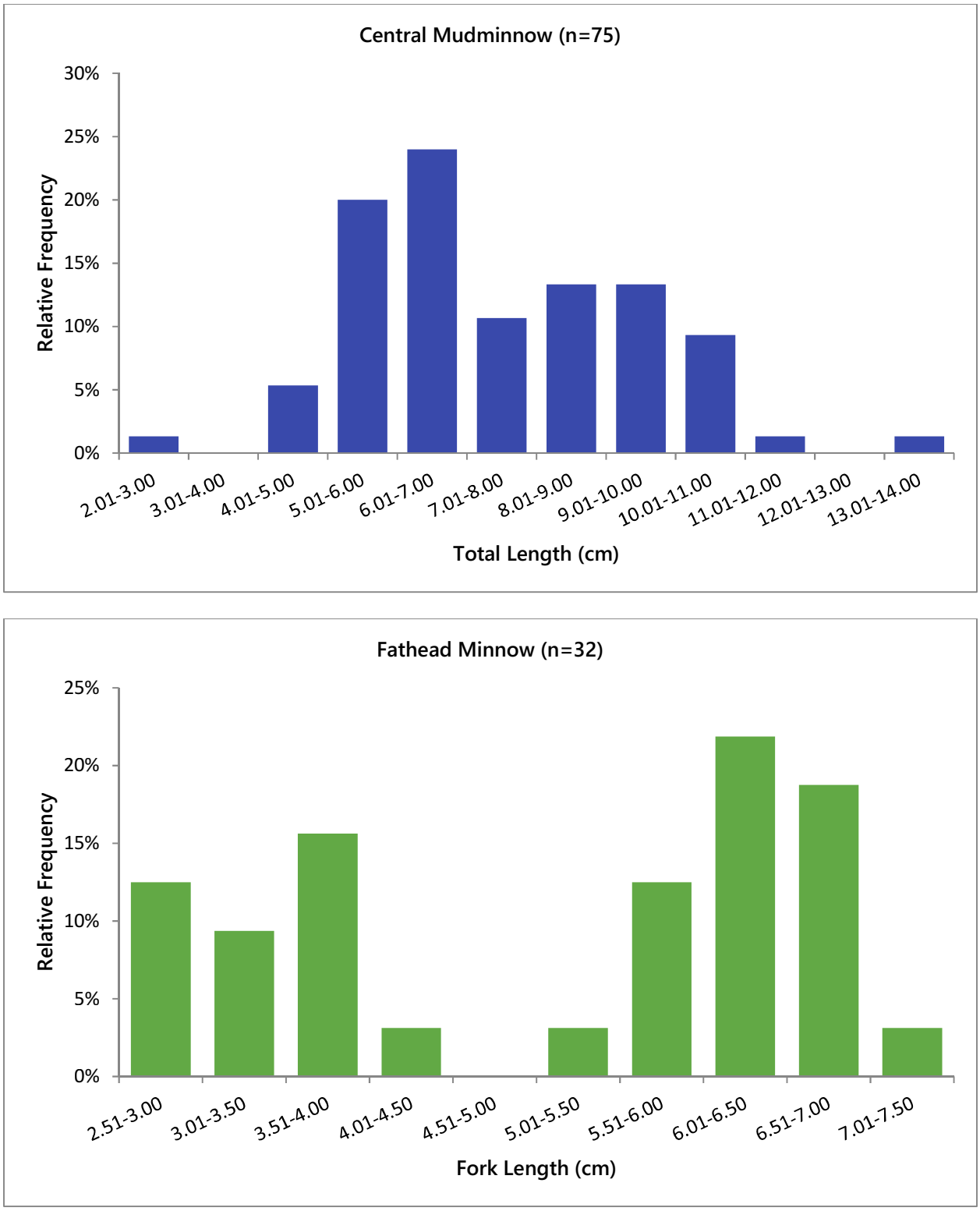


Figure A-6: Length-frequency Distributions for Fish Collected at Clark Creek Pond, Rainy River Mine 2021

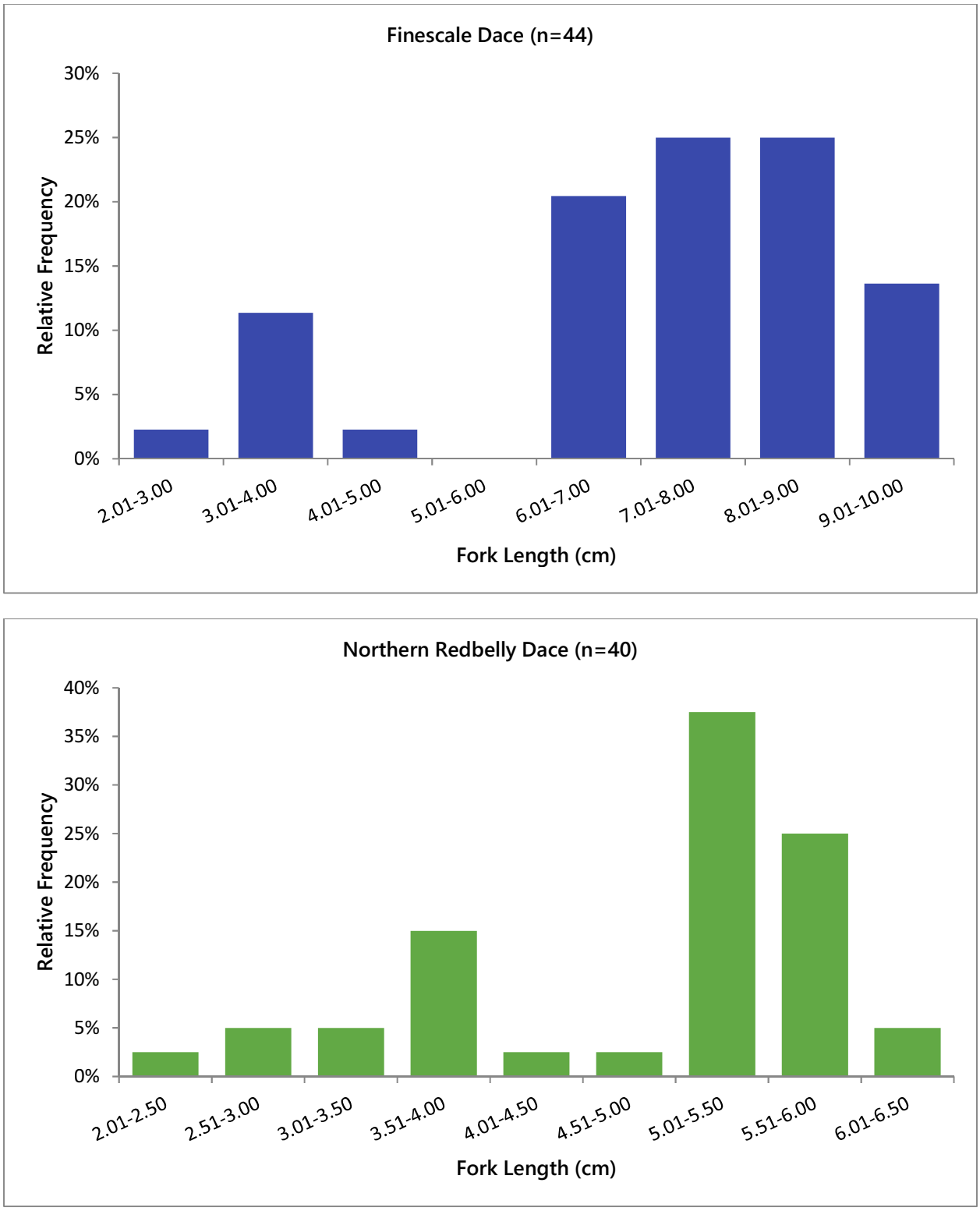


Figure A-6: Length-frequency Distributions for Fish Collected at Clark Creek Pond, Rainy River Mine 2021

Appendix B Photos

Photo B-1: Stockpile Pond Diversion Channel Habitat, May 2021

Stockpile Pond Diversion Channel May 2021 (SPDC-4)	Stockpile Pond Diversion Channel May 2021
	
Stockpile Pond Diversion Channel May 2021 (SPDC-1)	**Stockpile Pond Diversion Channel May 2021 (SPDC-3)**
	

Photo B-2: Stockpile Pond Diversion Channel Habitat, July 2021

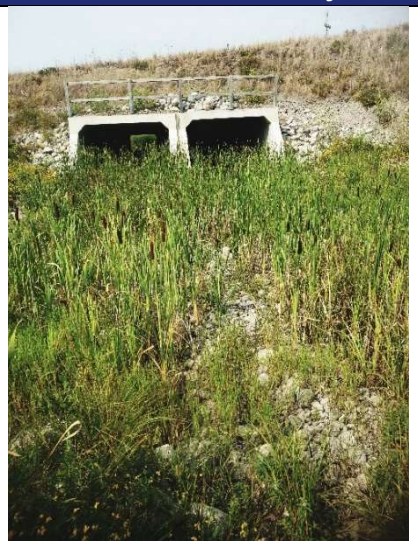
Stockpile Pond Diversion Channel (dry area) – July 2021	Stockpile Pond Diversion Channel (dry area) – July 2021
	
Stockpile Pond Diversion Channel (dry area) – July 2021	**Stockpile Pond Diversion Channel (dry area) – July 2021**
	

Photo B-3: Stockpile Pond Diversion Channel Groundwater Seep, July 2021

Photo B-4: West Creek Diversion Channel (upstream of haul road), May 2021

West Creek Diversion Channel – May 2021 (WCDC-1)	West Creek Diversion Channel – May 2021 (WCDC-5)
	
West Creek Diversion Channel – May 2021 (WCDC-6)	**West Creek Diversion Channel – May 2021 (WCDC-8)**
	

Photo B-5: West Creek Diversion Channel (downstream of haul road), May 2021

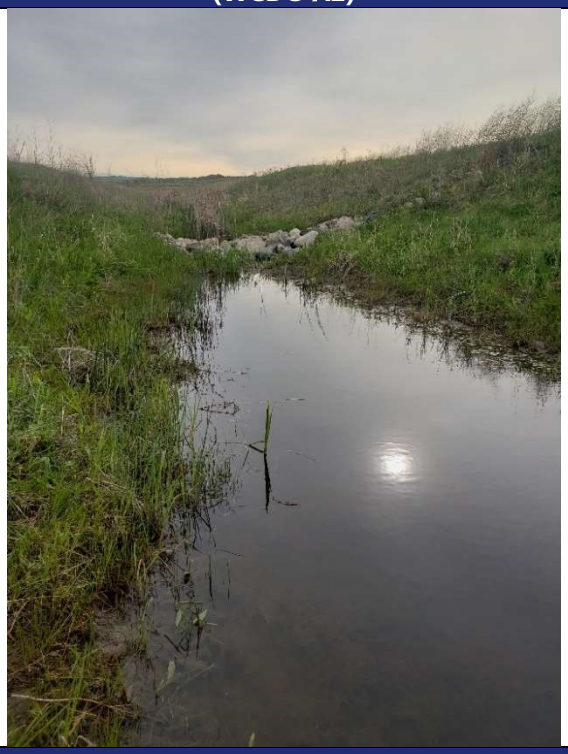
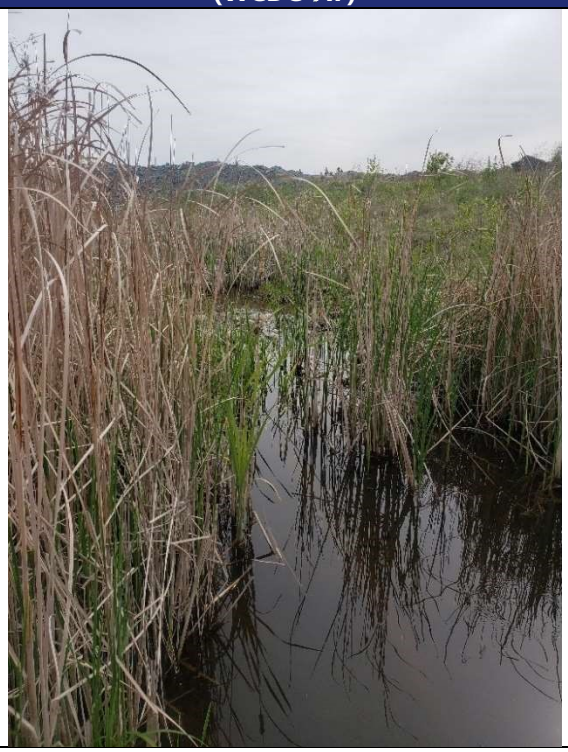
West Creek Diversion Channel – May 2021 (WCDC-A2)	West Creek Diversion Channel – May 2021 (WCDC-A5)
	
West Creek Diversion Channel – May 2021 (WCDC-A6)	**West Creek Diversion Channel – May 2021 (WCDC-A7)**
	

Photo B-6: West Creek Diversion Channel (upstream of haul road), July 2021

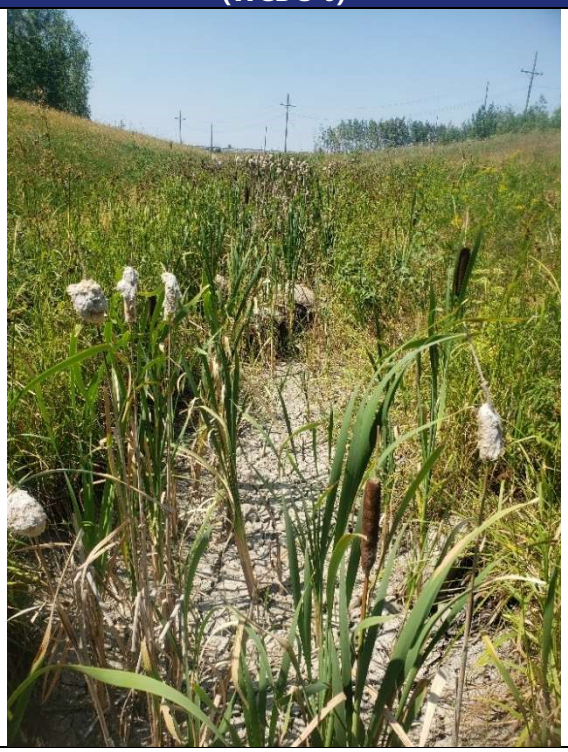
West Creek Diversion Channel – May 2021 (WCDC-1)	West Creek Diversion Channel – May 2021 (WCDC-5)
	
West Creek Diversion Channel – May 2021 (WCDC-6)	**West Creek Diversion Channel – May 2021 (WCDC-8)**
	

Photo B-7: West Creek Diversion Channel (downstream of haul road), July 2021

West Creek Diversion Channel – May 2021 (WCDC-A2)	West Creek Diversion Channel – May 2021 (WCDC-A5)
	
West Creek Diversion Channel – May 2021 (WCDC-A6)	**West Creek Diversion Channel – May 2021 (WCDC-A7)**
	

Photo B-8: West Creek Diversion Channel Low Water Fish Refuge Habitat, July 2021

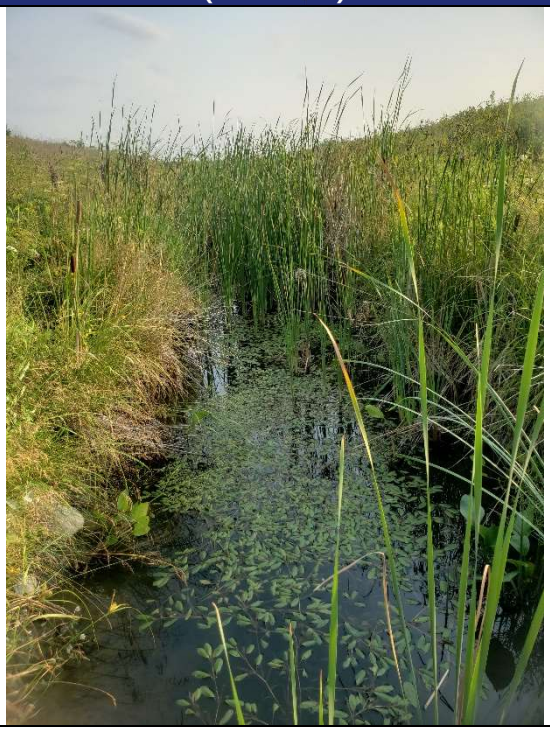
West Creek Diversion Channel – May 2021 (WCDC-A2)	West Creek Diversion Channel – May 2021 (WCDC-A5)
	
West Creek Diversion Channel – May 2021 (WCDC-A6)	**West Creek Diversion Channel – May 2021 (WCDC-A7)**
	

Photo B-9: Clark Creek Diversion Channel Habitat, May 2021

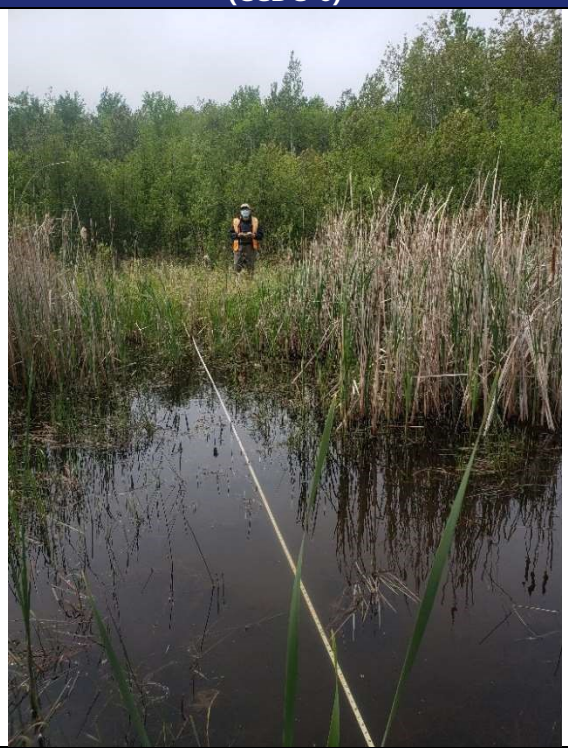
Clark Creek Diversion Channel – May 2021 (CCDC-1)	Clark Creek Diversion Channel – May 2021 (CCDC-3)
	
Clark Creek Diversion Channel – May 2021 (CCDC-5)	**Clark Creek Diversion Channel – May 2021 (CCDC-6)**
	

Photo B-10: Clark Creek Diversion Channel Habitat, July 2021

Clark Creek Diversion Channel – May 2021 (CCDC-1)	Clark Creek Diversion Channel – May 2021 (CCDC-3)
	
Clark Creek Diversion Channel – May 2021 (CCDC-5)	**Clark Creek Diversion Channel – May 2021 (CCDC-6)**
	

Photo B-11: Stockpile Pond Habitat, July 2021

Stockpile Pond – July 2021	Stockpile Pond – July 2021
	
Stockpile Pond – July 2021	Stockpile Pond – July 2021
	

Photo B-12: West Creek Pond Habitat, July 2021

West Creek Pond Habitat – July 2021	West Creek Pond Habitat – July 2021
	
West Creek Pond Habitat – July 2021	
	

Photo B-13: Clark Creek Pond Habitat, July 2021

Clark Creek Pond Habitat – July 2021	Clark Creek Pond Habitat – July 2021
	
Clark Creek Pond Habitat – July 2021	**Clark Creek Pond Habitat – July 2021**