

Line Items and Notes for Hatchery Repair and Maintenance Contract

Item	Description	Estimated Qty	Unit Rate	Line Total
	Mobilization Fees – Light Equipment ²	Est. Qty	Rate/mob.	Line Total
1	Mobilization to site for work requiring light equipment ² where repair time is 1/2 day (6 hours) or less	4		
2	Mobilization to site for work requiring light equipment ² where repair time is ½-1 day (>6 and ≤12 hours)	4		
3	Mobilization to site for work requiring light equipment ² where repair time is 1-3 days (>12 and ≤36 hours)	5		
4	Mobilization to site for work requiring light equipment ² where repair time is 3-5 days (>36 and ≤60 hours)	2		
5	Mobilization to site for work requiring light equipment ² where repair time is greater than 5 days (>60 hours)	1		
	Mobilization Fees – Heavy Equipment ³			
6	Mobilization to site for work requiring heavy equipment ³ where repair time is 1/2 day (6 hours) or less	1		
7	Mobilization to site for work requiring heavy equipment ³ where repair time is ½-1 day (>6 and ≤12 hours)	1		
8	Mobilization to site for work requiring heavy equipment ³ where repair time is 1-3 days (>12 and ≤36 hours)	1		
9	Mobilization to site for work requiring heavy equipment ³ where repair time is 3-5 days (>36 and ≤60 hours)	1		
10	Mobilization to site for work requiring heavy equipment ³ where repair time is greater than 5 days (>60 hours)	2		
	Repairs to underground pipe and pipe fittings, valves, valve actuators, valve stems – includes assessment, finding and getting quotes for materials, actual excavation and repair/replacement, backfilling, testing, and restoring ¹ work area to original condition for the following -	Est. Qty	Rate/hour	Line Total
11	2"-4" air/water lines @ 6' depths or less	12		
12	6"-8" air/water/drain lines @ 6' depths or less	24		
13	10"-18" water/drain lines @ 6' depths or less	12		
14	10"-18" water/drain lines @ >6' – 12' depths	24		
15	20"-30" water/drain lines @ 6' depths or less	18		
16	20"-30" water/drain lines @ >6' – 12' depths	18		
17	32-36" water/drain lines @ >6'-12' depths	24		

	Repairs to above ground pipe and pipe fittings – includes assessment, finding and getting quotes for materials, actual repair and replacement, testing, and restoring work area to original condition for the following -	Est. Qty	Rate/hour	Line Total
18	<6" pipe	16		
19	6"-12" pipe	80		
20	18"-24" pipe	24		
21	Repair of eroded or washed out dirt work on hatchery grounds, in ponds, pond levees, under pond liners, or under and around concrete structures (minor, requiring light equipment ² and hand tools)	40		
22	Repair of eroded or washed out dirt work on hatchery grounds, in ponds, pond levees, under pond liners, or under and around concrete structures (major, requiring heavy equipment ³)	80		
23	Repair/maintenance of rotating microscreen water filters and associated equipment (may include replacing belts, gaskets, filter panels, chains, bearings and bearing blocks, and welding stainless steel; may also include replacing spray bar pumps and other miscellaneous repairs) using light equipment ²	12		
24	Repair/maintenance of rotating microscreen water filters and associated equipment (may include replacing belts, gaskets, filter panels, chains, bearings and bearing blocks, and welding stainless steel; may also include replacing spray bar pumps and other miscellaneous repairs; may require removal of drum frames) using heavy equipment ³	24		
	Jetting and cleaning of water/drain lines			
		Est. Qty	Rate/hour	Line Total
25	8" pipe or less	12		
26	>8" pipe	4		
27	Repair or replacement of pond control access structures (may include driving, anchoring, and backfilling sheet piling for earthen piers, repairing/replacing wooden and fiberglass hand rails, repairing/replacing wooden walkways)	24		
	Total:			

Notes:

¹All excavations shall follow local and state and federal safety codes to protect adjacent property and employees. Pipe repairs must be tested before backfilling. Backfill material must be free of roots, sod, and other vegetable matter that would result in loose or incomplete backfill. Extreme care should be taken in placing and compacting backfill so that pipe is not displaced or misaligned. Material should be carried up evenly on both sides of the pipe simultaneously in horizontal layers not to exceed 1 foot in depth. Contractor shall hand-backfill trenches up to an elevation of 6 inches above the top of the pipe, making sure backfill is in contact with entire periphery of pipe. Compaction should be at the contractor's option by vibration, mechanical or other means. The contractor will be responsible for resolving any soil or pipe settling and resurfacing issues which may occur due to improper backfilling any time in the year following the repair at his own expense.

²Light equipment – mini-excavator (less than 50 hp); hand tools; skid steer; pick-up truck; dump trailer (items/equipment that can be transported to the hatchery with pick-up trucks and/or trailers towed by pick-up trucks)

³Heavy equipment – backhoe, excavator, bulldozer, dump trucks to shuttle material, trench box; crane; (equipment requiring a hauler larger than a 1-ton pick-up truck)