Job Analysis Form

Alternate Format Available



SHORT FORM FOR PRE-EMPLOYMENT PHYSICALS

Physical Required: General physical, Diabetes, BP, Vision, Back strength and lifting and Audiogram.

PATIENT NAME:

JOB TITLE: Wastewater Process Engineer II WORK SCHEDULE: 40/week

JOB DESCRIPTION: Performs a variety of fully proficient professional engineering duties. Incumbents will develop, plan and direct engineering feasibility studies to improve unit process performance, to research new equipment and chemicals, and commission new equipment associated with a wastewater treatment facility. In addition, incumbents will develop specifications for wastewater treatment processes to assist design engineers in the development of plans and specifications for contract services.

WORK ENVIRONMENT: Wastewater treatment plant.

DEPARTMENT: Natural Resources. Wastewater

ESSENTIAL FUNCTIONS: This classification must perform the essential duties of the Wastewater Process Engineer I and the following additional duties; Develop and conduct engineering feasibility studies and project to optimize plant processes to ensure maximum performance and cost effective operation. Research, evaluat and make recommendations on alternatives for purchases of new equipment, operating procedures and chemicals. Develop procedures for and implement the start up and commissioning of new equipment. Direct assist in troubleshooting equipment and process problems. Develop specifications to assist design engineers the development of plans and specifications for equipment purchases, new processes and process improvements. Serve as the client representative for the plant operations and maintenance which includes bu is not limited to reviewing and making recommendations on engineering plans and specifications, proposed project scope of work and pre-design criteria to ensure compatibility and acceptable plant performance standards. Serve as contract administrator and engineer for assigned projects. Monitor consultants and contractors work, progress payments and change orders and assist in resolving conflicts. Train wastewater treatment facility staff or act as the technical subject matter expert for new or existing equipment, systems, or processes. Work with plant training and education staff involved in the development and implementation of training courses and materials regarding new or modifications to existing equipment, systems or processes. Work with technical publications staff involved in the preparation of operating manuals associated with equipment and processes. Monitor and project energy and chemical usage in plant, pump stations and treatment

	Exposures:				
n	<u>X</u> Outside weather				
	<u>X</u> Non-weather related				
'S	temp below 55 ⁰				
3	Non-weather related				
	temp above 75 ⁰				
	<u>X</u> Humidity/dampness				
ts	Moving mechanical parts				
te	<u>X</u> Exposed high places				
	<u>X</u> Vibration				
or	<u>X</u> Toxic or caustic chemicals				
; in	Confined spaces				
ut	_ <u>X_</u> Wet _ <u>X</u> _Gasses				
	_ <u>X_</u> Fumes <u>X_</u> Odors				
	_ <u>X</u> _DustsMists				
	RadiationExplosives				
	<u>_X_</u> Noise Level <u>80-100 DBL</u>				
	Other				
	Special Requirements:				
	□ CDL □ Respirator use				

facilities processes and general wastewater treatment facility operations. Identify and notify supervisory and management staff of changes in energy and chemical usages to ensure that processes are operating at an optimal level in terms of work hours, equipment, chemicals and power costs. Prepare progress reports, project proposals and technical reports.

***Continued on next page.

PHYSICAL DEMAND	HRS PER SHIFT	PHYSICAL DEMAND	HRS PER SHIFT
Standing	2 – 4 hours	Reaching knee-waist	1 – 2 hours
Walking 🗵 uneven terrain	2 – 4 hours	Reaching floor-knee	1 – 2 hours
Sitting	2 – 4 hours	Lifting/Carrying 1-10#	2 – 6 hours
Climbing stairs	0 – 15 minutes	Lifting/Carrying 11-20#	1 – 3 hours
Climbing <u>ladder</u>	0 – 15 minutes	Lifting/Carrying 21-50#	30 min – 1.5 hour
Balancing	0 – 2 hours	Lifting/Carrying 51-100#	0
Bending/Stooping	0 – 2 hours	Lifting/Carrying 100+#	0
Kneeling	0 – 1 hour	Handling	4 – 6 hours
Crouching	0 – 1 hour	Hand Controls	0 – 2 hours
Crawling	0 – 1 hour	Fingering 🗵 keyboarding	4 – 5 hours
Foot controls	30 min – 2 hours	Vision to assure safety of others	0 – 6 hours
Reaching above shoulders	1 – 2 hours	Hearing to assure safety of others	0 – 6 hours
Reaching waist-shoulder	2 – 4 hours	Other	

I have reviewed the following Job Analysis for the above-named candidate.

Physician's Signature

Date