MINIMAL WASTEWATER DISCHARGES FROM INDUSTRIAL FACILITIES COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT	FOR AGENCY USE ONLY PERMIT NUMBER C O G - 6 0 0 9 8 8 DATE RECEIVED YEAR / MONTH / DAY

Please print or type. Do not attempt to complete this form before reading the instructions.

XX New or Renewal If renewal, existing permit number: COG-_____.

1. From the list on Appendix C, page 9, please indicate the category letter code of the permit that you believe corresponds with your discharge most closely.

2. Will discharges occur in multiple locations?

3. **Name and address of permit applicant:**

   Company Name: Powertech Uranium USA

   Federal Taxpayer (or Employer) ID#: 20-4989218

   Mailing Address: 6200 S.Troy Circle, Suite 150

   City, State and Zip Code: Centennial, CO 80111

   Phone Number: (303) 790-7528 Who is applying for the permit? XX Owner ☐ Operator

   Local Contact (familiar with facility): Lane Douglas

   Title: Project Manager Fax Number: (303) 790-3885 Phone Number: (303) 790-7528

4. **Name and address of property owner if operator is applying for the permit:**

   Name: Powertech Uranium, USA

   Mailing Address: 6200 S. Troy Circle, Suite 150

   City, State and Zip Code: Centennial, CO 80111

   Phone Number: (303) 790-5528 Fax No.: 303.790-3885

5. **Location of the facility:**

   Street Address: (See Attached Map

   City, State and Zip Code: Nunn, CO

   County: Weld Name of facility: Centennial Uranium

   Legal Location (Township, Range, Section, 1/4 Section): See Attached Map (Section 33, T10N, R67W)

   Latitude and Longitude:

6. **Standard Industrial Classification (SIC) Code(s)** for this facility. (Include up to four, in order of importance.)

7. **Industrial activity:** Describe the primary industrial activities which take place on site. Include the type of facility (car lot, gas station parking lot, potato processing plant, etc.) plus a brief description of the nature of the business and the industrial processes used. (The applicant may want to submit a process flow sheet.) If this is a seasonal operation, list the months of operation. Indicate the number of hours per day or weeks of operation.

No industrial activities are occurring on site-the permit request will authorize a aquifer pumping test that could take 7 days period. If the aquifer stabilizes with the 7 day period-the test will be terminated.

If the discharge is from a hydrostatic test, are the pipes or vessels being tested new ☐ used ☐ If used, what materials were being stored or transported by the pipes or vessels in question? (NOT APPLICABLE)

8. **Production:** List the principal product(s) produced (if any) and maximum production rate.

Water will be pumped at a rate between 30 and 50 gpm

9. **Intermittent discharges:** Except for storm runoff, are any of the discharges intermittent or seasonal? (NO)
Is this a one-time discharge? YES Describe the frequency, duration and flow rate of each discharge occurrence. Step drawdown test Flow rates will be varied from 10 to 50 gpm.

10. **Other Environmental Permits:** Does this facility **currently** have any environmental permits, or is it subject to regulation, under any of the following programs?

Permit Name	Yes	No	Date Applied For	Permit No.
a.) Colorado Division of Minerals and Geology (formerly MLRD)		NO		
b.) Underground Injection Control		NO		
c.) Dredge or fill permit, Section 404, (Army Corps of Engineers)		NO		
e.) Resource Conservation and Recovery Act (RCRA)		NO		
f.) CDPS Stormwater		NO		
g.) Colorado State Air Pollution Program		NO		
h.) Other		NO		

NOTE: If a construction dewatering permit is needed along with the minimal discharge permit for work on the same facility (such as a construction dewatering permit for the trench dewatering, and minimal discharge permit for the hydrostatic test), **one permit may be issued for both.** Another example would be: the construction dewatering permit for the construction of an underground parking structure and the minimal discharge permit for the sump to dewater the facility once construction is complete. If both permits are needed, list the construction dewatering discharge as discharge point 001 in items 19 and 20. List the other discharge (minimal discharge) as discharge point 002 in items 19 and 20.

11. **Location map:** A location map designating the facility property, intake points, discharge points, each of its hazardous waste treatment storage or disposal facilities, each well where fluids from the facility are injected underground, those wells, springs, other surface water bodies and drinking water wells listed in public records or otherwise known to the applicant and the receiving waters shall be submitted. The map shall extend one mile beyond the property boundaries. The map shall be from a 72 or 15 minute USGS quad sheet, or a map of comparable scale. A north arrow shall be shown. **The map must be on paper 8 1/2 x 11 inches or processing of your permit will be delayed.**

12. **Site sketch:** A legible general sketch of the site shall be submitted, showing appurtenant facilities (buildings, ponds, diversion ditches, stockpiles, etc.), stream location, numbered discharge points, sampling and flow monitoring points. The outfalls shall be labeled to correspond with the numbers listed in items 20 and 21. **The map must be on paper 8 1/2 x 11 inches or processing of your permit will be delayed.**

13. **Site-specific conditions:**

a) Does this facility have bulk storage of diesel fuel, gasoline, solvents, fertilizers, hazardous, or toxic materials on site? Response (NO)

b) Is this operation located within one mile of a landfill, or any mine or mill tailings? Response (NO)

c) Does the dewatering area have or possibly have groundwater contamination, such as plumes from leaking underground storage tanks, etc.? Response (NO)

If YES for **any** of these, please show location of the landfill, tailings or possible groundwater contamination on the location map in item 12 or in the site sketch in item 13. Please explain the location, extent of contamination, possible effect on the discharges from this facility.

Not Applicable

14. **Chemical treatment:** Will any chemical additives or other materials be used in the water or to treat water prior to discharge? If YES, list here and include the Material Safety Data Sheet (MSDS) with the application. NOT APPLICABLE

Chemical Name *	Manufacturer	Purpose	In Which Waste Stream?

* If the chemical formula is unknown or confidential, provide the manufacturer's name, contact person, address and phone number or a copy of the manufacturer's brochure, product label information or materials handling data sheet for each product used. Please list the major constituents or active ingredient(s), if known.

15. **Used or manufactured toxics:** The applicant must provide a list of any toxic products which the applicant currently uses or manufactures as an intermediate or final product or by product.

(NOT APPLICABLE)

16. **Flow measurement:** What method of flow measurement will be used for each discharge point (e.g., v notch weir, pump capacity, parshall flume, etc.)? Designate whether currently installed or proposed. Identify the minimum and maximum flow measurement capability.

Flow totalizer-periodic checks, pump capacity, pipe instantaneous discharge

17. **Improvements:** Please provide a description of any construction, upgrading or operation of waste treatment equipment. Also include here a description of any changes to the facility since the previous permit renewal.

NOT APPLICABLE

18. Is or will land application of any wastewater be practiced? Yes [X] Briefly describe the process:

Water from discharge will be placed in reserve pit-allowed to dissipate on rancher field. The field has a gradient ranging from 1 to 2 %

19. **Average flows and treatment:** Please provide a narrative identification of each type of process, operation, or production area which contributes wastewater to the effluent for each outfall including process wastewater, cooling waters, domestic wastewater and storm-water runoff; the average, maximum and design flow which each process contributes; and a description of the treatment the wastewater receives including the ultimate disposal of any solid or fluid wastes other than by discharge. Processes, operations or production areas may be described in general terms. The average flow of point sources composed of stormwater may be estimated.

Use additional pages as needed.

OUTFALL NUMBER	WASTEWATER SOURCE	TREATMENT USED	AVERAGE FLOW gpm *	DESIGN FLOW gpm **	DAILY MAXIMUM FLOW gpm
001	Pumped Well	two reserve pits	30	50	50
002					
003					
004					
005					

*gpm - gallons/minute

**If sediment pond, indicate approximate volume of water. 18000 cu ft (68,000 gallons)

20. For each outfall provide the latitude, longitude and receiving water.

OUTFALL	LATITUDE			LONGITUDE			RECEIVING WATERS See instructions
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS	
001	40	42	28.18N	104	53	37.8	Dry trib to Spring Ck
002							
003							
004							
005							

21. Will the discharge enter a ditch or storm sewer prior to entering the receiving waters? NO

22. **Discharge Quality:** Analytical data for the following parameters, may be required by the permit drafter in order to complete the certification properly, and if so shall be submitted from at least one grab sampling of each discharge point. If this information is required, the legal contact will be contacted and said data will be requested. Do not perform and submit data for the parameters listed below unless requested by the Division or unless data from analyses are already available and permittee wishes to include this information with the application. See instructions.

PARAMETER	DETECTION LEVEL	PARAMETER	DETECTION LEVEL
Total Dissolved Solids, mg/L	10	Total Recoverable Iron, mg/L	0.3
Flow, MGD	NA	Total Residual Chlorine, mg/L	0.05
pH, s.u.	NA	Fecal Coliform Bacteria, #/100 ml	NA
Oil and Grease, mg/L	5	Nitrate, mg/L as N	0.1
Dissolved Oxygen, mg/L	NA	Chemical Oxygen Demand, mg/L	30
Total Alkalinity (as $CaCO_3$, mg/L	10	Biochemical Oxygen Demand, mg/L	1
Total Suspended Solids, mg/L	10	Temperature, °C Summer	NA
Hardness, mg/L as $CaCO_3$	10	Temperature, °C Winter	NA
Total Ammonia, mg/L as N	0.05	Total Phosphorus, mg/L	0.05

23. **Whole Effluent Toxicity Testing:** If required, the WET testing shall be conducted on 100% effluent and be for both Ceriodaphnia dubia and fathead minnows. This requirement is waived where routine testing is currently required under an existing CDPS permit. The test shall be an acute test. The Division reserves the right to request WET testing as part of the application review process. If so required, the permit application will not be considered complete until the additional information is submitted. Do not perform and submit data for this parameter unless requested by the Division or unless data from analyses are already available.

24. **Additional WET Testing:** All applicants must identify any biological toxicity tests which have been performed within the last 3 years on any of the discharges or the receiving water in relation to a discharge from this facility.

25. **Additional monitoring:** All applicants must review the parameters listed in Appendix A and Appendix B to this application, and indicate whether they know or have reason to believe that these pollutants are present. For every pollutant expected to be discharged, the applicant must briefly describe the reasons the pollutant is expected to be discharged, and report any quantitative data it has for any pollutant.

No baseline data available

26. **Discharge duration:** When will/did the discharge commence? ASAP What is the estimated duration of the wastewater discharge? 7 days
List the **actual, total** duration of the discharge only, not the duration of the whole project.

27. If intermittent/discontinuous, describe expected schedule or periods of discharge.

One test will be conducted-continuous but variable discharge

28. **Pollution Prevention Plans:** Please describe any pollution prevention or best management plans currently in place which could result in the improvement of water quality. These could include solvent recycling programs, material containment procedures, education, etc.

Straw bales, energy dissipators, silt fences, will be used as necessary

29. Please include any other information which you feel the Division should be aware of in drafting this permit.

Instrumentation will be automated-rills and gullies will be repaired if they form-surface owner's permission will be obtained

30. **Signature of Applicant**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Operator — Date Signed: 10/15/07

Richard Blubaugh — Vice President

Name (printed) — Title

31. In the case of facilities that **intend to discharge to storm sewers, permission to discharge into stormwater systems must be obtained from the owners or owners agents of each system into which the permittee intends to discharge.** NOT APPLICABLE

"I certify that I have read and understand the preceding paragraph and will comply with it by obtaining permission to discharge into the stormwater systems from the owners or owners agents of each system into which I intend to discharge".

Signature — Date Signed

Name (printed) — Title

Appendix A - Priority Pollutants

Organic Toxic Pollutants in Each of Three Fractions in Analysis by Gas Chromatography/Mass Spectroscopy(GC/MS).

Volatiles	Base/Neutral	Acid
Acrolein	Acenaphthene	2-Chlorophenol
Acrylonitrile	Acenaphthylene	2,4-Dichlorophenol
Benzene	Anthracene	2,4-Dimethylphenol
Bromoform Benzidine	4,6-Dinitro-o-cresol	
Carbon Tetrachloride	Benzo(a)anthracene	2,4-Dinitrophenol
Chlorobenzene	Benzo(a)pyrene	2-Nitrophenol
Chlorodibromomethane	3,4-Benzofluoranthene	4-Nitrophenol
Chloroethane	Benzo(ghi)perylene	P-chloro-m-cresol
2-Chloroethylvinyl Ether	Benzo(k)fluoranthene	Pentachlorophenol
Chloroform Bis(2-chloroethoxy)methane	Phenol	
Dichlorobromomethane	Bis(2-chloroethyl) ether	2,4,6-Trichlorophenol
1,1-Dichloroethane	Bis(2-chloroisopropyl) ether	
1,2-Dichloroethane	Bis(2-ethylhexyl)phthalate	
1,1-Dichloroethylene	4-Bromophenyl phenyl ether	
1,2-Dichloropropane	Butylbenzyl phthalate	
1,3-Dichloropropylene	2-Chloronaphthalene	
Ethylbenzene	4-Chlorophenyl phenyl ether	
Methyl Bromide	Chrysene	
Methyl Chloride	Dibenzo (a,h) anthracene	
Methylene Chloride	1,2-Dichlorobenzene	
1,1,2,2-Tetrachloroethane	1,3-Dichlorobenzene	
Tetrachloroethylene	1,4-Dichlorobenzene	
Toluene	3,3-Dichlorobenzidine	
1,2-Trans-dichloroethylene	Diethyl phthalate	
1,1,1-Trichloroethane	Dimethyl phthalate	
1,1,2-Trichloroethane	Di-n-butyl phthalate	
Trichloroethylene	2,4-Dinitrotoluene	
Vinyl Chloride	2,6-Dinitrotoluene	
	Di-n-octyl phthalate	
	1,2-Diphenylhydrazine (as azobenzene)	
	Fluorene	
	Fluoroanthene	
	Hexachlorobenzene	
	Hexachlorobutadiene	
	Hexachlorocyclopentadiene	
	Hexachloroethane	
	Indeno(1,2,3-cd) pyrene	
	Naphthalene	
	Nitrobenzene	
	N-Nitrosodimethylamine	
	N-Nitrosodi-n-propylamine	
	N-Nitrosodiphenylamine	
	Phenanthrene	
	Pyrene	
	1,2,4-Trichlorobenzene)	

Appendix A (Continued)

Pesticides

Aldrin
Alpha-BHC
Beta-BHC
Gamma-BHC
Delta-BHC
Chlordane
4,4'-DDT
4,4'-DDE
4,4'-DDD
Dieldrin
Alpha-Endosulfan
Beta-Endosulfan
Endosulfan Sulfate
Endrin
Endrin Aldehyde
Heptachlor
Heptachlor Epoxide
PCB-1242
PCB-1254
PCB-1221
PCB-1232
PCB-1248
PCB-1260
PCB-1016
Aldicarb
Disulfoton
Esfenvalerate
Fenvalerate
Fonofos
Methamidophos
Parathion-methyl
Permethrin
Phorate
Aldicarb
Carbofuran
Terbufos
Parathion-ethyl
Methomyl
Diazionon
Cypermethrin
Chlorpyrifos

Fungicides/Nematicides

Captan
Chlorothalonil
Copper
Dichloropropene
Iprodione
Mancozeb
Maneb
Metalaxyl
Streptomycin
Sulfur
Thiobendazole
Thiophanate-methyl
Triphenyltin hydroxide
Chloropicrin
Metham
Triadimefon

Herbicides

Ametryn
Diquat
EPTC
Glyphosate
Linuron
Metolachlor
Metribuzin
Paraquat
Pendimethalin
Sethoxydim
Trifluralin
Clopyralid
Cycloate
Desmedipham
Diethatyl
Ethofumesate
Bromoxynil
DCPA
Fluazifop-P
Oxyfluorfen

Metals, Cyanide, and Total Phenols

Total Recoverable Antimony, mg/L
Total Recoverable Beryllium, mg/L
Total Recoverable Thallium, mg/L
Bromide, mg/L
Color
Sulfite, mg/L
Surfactants,
Total Magnesium, mg/L
Total Molybdenum, mg/L
Total Tin, mg/L
Total Titanium, mg/L

Toxic Pollutants

Asbestos

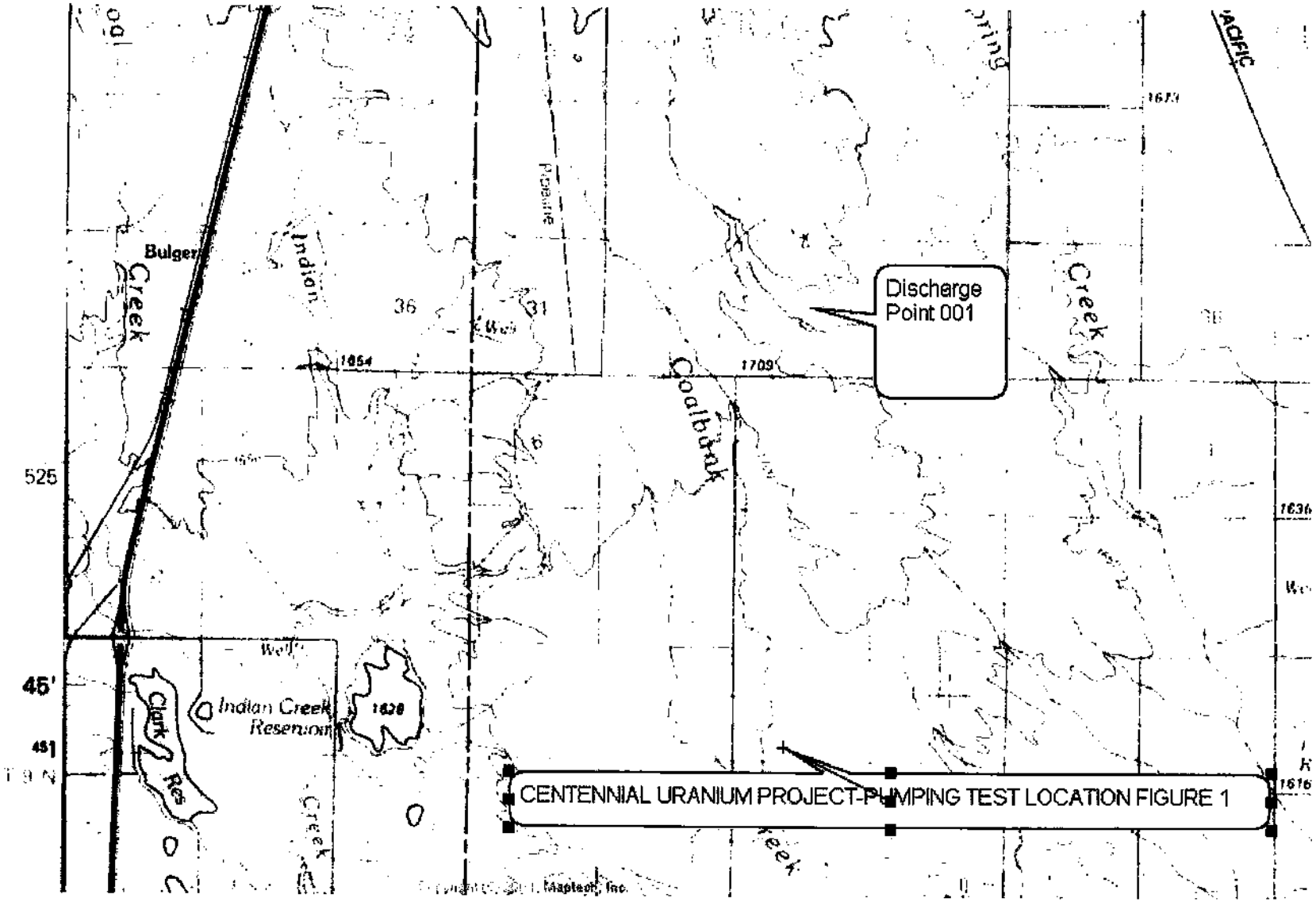
Appendix B - Toxic Pollutants and Hazardous Substances

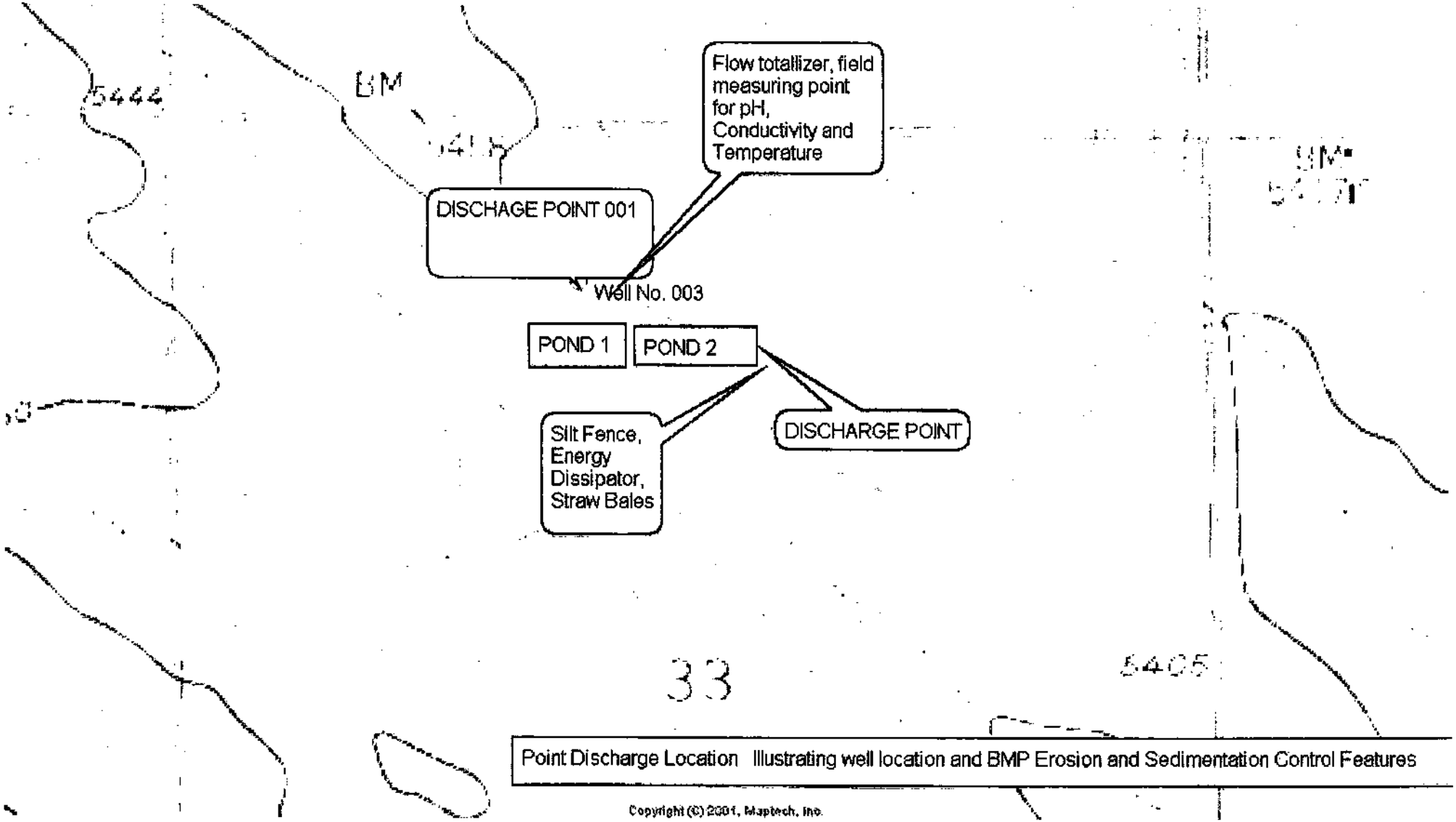
Hazardous Substances

Acetaldehyde Dimethly amine
Allyl alcohol Dinitrobenzene
Allyl chloride Diquat
Amyl acetate Disulfoton
Aniline
BenzonitrileEpichlorohydrin
Benzyl chloride
Butyl acetate Ethylene diamine
Butylamine
Captan
Carbaryl
Carbofuran
Carbon disulfide
Chlorphyrifos Isopropanolamine
Coumaphos Dodecylbenzenesulfonic acid
Cresol
Crotonaldehyde
Cyclohexane Malathion
2,4-D (2,4-Dichlorophenoxy acetic acid)
Diazinon
Dicamba
Dichlobenil Methyl parathion
Dichlone
2,2-Dichloropropionic acid
Dichlorvos
Diethyl amine
Monomethyl amine
Naled
Naphthenic acid
Nitrotoluene
Diuron
Phenolsulfanate
Ethion
Propargite
Ethylene dibromide
Formaldehyde
Furfural
Guthion
Isoprene
Strychnine
Styrene
Kelthane
Kepone
TDE (Tetrachlorodiphenyl ethane)
Mercaptodimethur
Methoxychlor
Methyl mercaptan
Methyl methacrylate
Triethylamine
Mevinphos
Mexacarbate
Monoethyl amine
Vinyl acetate
Parathion
Phosgene
Propylene oxide
Pyrethrins
Quinoline
Resorcinol
Strontium
2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)
2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid
Trichlorofan
Triethanolamine dodecylbenzenesulfonate
Trimethylamine
Uranium
Vanadium
Xylene
Xylenol
Zirconium

Appendix C - Discharge Categories Covered in this Permit (Aquifer Pump test)

A	Facilities discharging wastewater from stationary facilities that wash the exteriors of trucks, cars, airplanes, boats (in dry dock), driveways, parking lots, and roads.	G	Facilities discharging non-contact cooling or heating water.
B	Facilities discharging wastewater from the washing of bleachers, elevated seating, and grandstands, such as those found at outdoor sporting or entertainment events.	H	Facilities discharging hydrostatic test water from the testing of new or used pipes, tanks, or other similar vessels.
C	Facilities discharging wastewater from the draining, cleaning, and filter backwash of swimming pools, spas, hot tubs, and similar structures including water slides, and water theme amusements.	I	Discharges from facilities that employ the super chlorination (50-500 mg/L) of potable water lines for the disinfection of these lines in a routine or planned situation and wish to discharge the effluent.
D	Facilities discharging wastewater from the washing of temporary stables, traveling petting zoos, or any other facility that discharges wash water associated with animal wastes.	J	Facilities discharging wastewater from the washing of root crops such as potatoes, onions, sugar beets, or other fruit/vegetable agricultural produce or any other facility that discharges wash water associated with vegetative wastes.
E	Facilities discharging wastewater from commercial mobile cleaning vehicles such as steam cleaning, carpet cleaning, and pressure washing (including building washing).	K	Facilities discharging wastewaters other than the types listed above when negligible pollution concerns are present.
F	Facilities discharging groundwater from foundation, basement, or underground structure dewatering.	L	Facilities discharging wastewater from any of the above listed sources AND from construction related activities (ie trench or excavation dewatering) that are associated with the same job. See note on question # 11 of the application.


Discharge
Point 001
Bulger
Creek
Indian
Coalbank
Creek
Indian Creek
Reservoir
Clark Res
Creek
36
31
1654
1709
1636
1616
525
45'
CENTENNIAL URANIUM PROJECT-PUMPING TEST LOCATION FIGURE 1



Point Discharge Location Illustrating well location and BMP Erosion and Sedimentation Control Features