

Application for a Permit to Use Ground Water

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n a." Please read and refer to the instructions when completing your application. A summary of review criteria and procedures that are generally applicable to these applications is available at www.wrd.state.or.us/OWRD/PUBS/forms.shtml.

1. APPLICANT INFORMATION

	als		
Applicant:			
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Mailing Add	dress:		
	Cny	State	Zip
Phone:			
	Home	Work	Other
*Fax:		*Email Address:	
B. Organiza	ations		
Corporations	s, associations, firms, partnersl	hips, joint stock companies, coo	peratives, public and municipal corporations
Name of Or	ganization: McKins	try Company LLC	
Name and T	Title of Person Applying:	Pete Felzien	
Mailing Ade	dress or Organization:	12021 NE Airport Way, S	uite G
	Portland	Oregon State	97220
Phone :	503.331.2460	Nate	^{7.1} р 503.331.2460
4	Dan		
***************************************	Day 503.331.6906	*Email Address:	petef@mckinstry.com
*Fax: *Optional		*Email Address:	Evening
*Fax:		*Email Address: For Department Use	Evening
*Fax: *Optional			Evening

Ground Water 1

FEB 26 2009

WATER RESOURCES DEPT SALEM, OREGON

2. PROPERTY OWNERSHIP

Grahar	n		WA State	98338 Zip
Mailing Add	ress: 30316 M	ountain Highway		
Tacoma P	ump and Drillin	g Co.		
	be constructed by:	Well logs for V	V-1 and W-2 a	attached.
Wells must be o thewell is alrea well withthis ap	constructed accordinady constructed, plea pplication. Identify e	se enclose a copy of the ach well with a number of	well constructor corresponding to	the construction and maintenance of water wells. 's log and the well ID number, if available, for eac the wells designated on the map and proceed to have a well log, please complete the following:
1) W-1 B. Well Chai		W-2 (20')	3)	4)
well head:				n difference between nearest surface water and
1) W-1	(675') 2) W-2 (850')	_ 3)	4)
Distance from	n well(s) to nearest	stream or lake:		
Name of near	rest surface water b	oody: Colum	bia Slough	
Number of w	/ell(s): 2			
A. Well Info	rmation			
		3. GROUND WA	TER DEVEL	OPMENT
McKinstry	/ Co. LLC, 12021	NE Airport Way, Su	uite G, Portlai	nd, Oregon 97220
		ed of trust attacher esses of all affected la		
as depicted or	n the map. No p	property is crossed	l other than t	that owned by McKinstry Co.
•	-		•	th the water is to be diverted, (2) any any property on which the water is to be used
lan	ids I do not own ar	or an easement is not e state-owned submers stic use only (ORS 27	sible lands, and	ause the only affected this application is for
	o not currently have	e written authorization	n or easement p	permitting access.
☐ I h	ave a recorded eas	ement or written author	orization permit	tting access.
C No (Plea	ise check the appro	priate hox below)		
$\mathbf{X} \stackrel{Th}{=} (p)$	is land is encumbe lease provide a cop	red by easements, righty of the recorded deed	its of way, road d(s))	ls or other encumbrances
Th	ere are no encumb	rances		

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Completion Date: W-1 (10/19/08), W-2 (10/21/08)

Please provide a description of your well development. (Attach additional sheets if needed.)

Well No.	Diameter	Type and size of casing	No. of feet of casing (bgs)	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
W-1	12"	12" steel	72.5	72.5'- 107.5'	40′	20	72.5	1"PVC	108.5
W-2	12"	12" steel	80.5	80.5'- 114.5'	40′	20	77.5	1"PVC	119.5
									0. 1. a 1148 8 8 8 9 7 7 8 8 6 7 - 5 5 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7
WAS ARREST TO STREET								n vy ar y an Brau	A CONTRACT OF THE PROPERTY OF
			The second state of the second		MAI S COMMON MATERIAL STATES AND A STATES AN	400000000000000000000000000000000000000		4 5 5 1	A A A A A A A A A A A A A A A A A A A
					700 to 100 to				

Note: Well numbers in this listing must correspond to well locations(s) shown on accompanying map.

If well log is not available, or well is not yet constructed, you must provide: proposed total depth, depth of casing and seal, and the anticipated perforation and open intervals.

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Λ				

4. WATER USE

Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.

A. Type(s) of Use(s) Commercial/Industrial (See Form Q)

See list of beneficial uses provided in the instructions.

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 If your proposed use is **domestic**, indicate the number of households to be supplied with water:

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• If your proposed use is irrigation, please attach Form I

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- If your proposed use is mining, attach Form R
- If your proposed use is municipal or quasi-municipal, attach Form M
- If your proposed use is commercial/industrial, attach Form Q

Ground Water/3

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B. Amount of Water

Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

Well No.	Source or aquifer	Type of use	Total rate of water requested (in gpm)	Total annual quantity (in gallons)	Production rate of well (in gpm)
W-1	Troutdale Gravel Aquifer (TGA)	heating/cooling building	300	100,000,000	200
W-2	Troutdale Gravel Aquifer (TGA)	heating/cooling building	300	100,000,000	200
		A STATE OF THE STA			Military and the second
			Recommendation and the second		

W-2	Troutdale Gravel Aquifer (TGA)	heating/cooling building	300	100,000,000	200
					0.00
C. Maximu	m Rate of Use Reques	ted			
	maximum, instantaneou your application will be b	us rate of water that will based on this amount.)	be used?3	00gpm (0.668	(cfs)
D. Period o					
		se to use the water: year			
For seasonal	uses like irrigation give d	ates when water use would l	begin and end,	e.g. March 1-Octo	iber 31.)
E. Acreage					
•	oe applying water to lan acres where water will b		N/A		
This number	should be consistent with	your application map.)			
		5. WATER MANAGE	MENT		
. Diversion					
/hat method	I will you use to divert v	water from the source?			
X Pum	np (give horsepower and	pump type): 20 hp	submersik	ole;	
othe	er means (describe):	MANA NA PARAMANA NA PARAMANANA NA PARAMANA			
3. Transpor	rt				
How will y	ou transport water to yo	our place of use?			
	Ditch or canal (give aver	rage width and depth):			
Width		Depth			
Is the ditch	or canal to be lined?	C Yes C No			RECEIVED
X P	ipe (give diameter and t	otal length):			CCD 0.0 2000

Ground Water/4

800 Feet

4" Length

Diameter

other, describe:

C. Application/Distribution Method

What equipment will you use to a	ipply water to your	place of use?	
All water pumped will be re temperature geothermal (L	•	•	. System is for low (see attached narrative or system
rrigation or land application met	hod (check all that a	upply):	
☐ Flood ☐ Drip ☐ Hand Lines	☐ High pressur☐ Water Canno	ons	☐ Low pressure sprinkler ☐ Center pivot system
Siphon tubes or gated pipe			
X other, describe: Non-co	nsumptive heat	ting/cooling sys	stem
Distribution method			
∑ Direct pipe from source	In-line s	storage (tank or por	nd)
E. Conservation			
Have you considered other meth	ods to transport, ap	ply, distribute or us	his distribution or application method use water? For example, if you are usi ditional space, attach a separate sheet.
All water pumped from one seasonal changes in flow directime per year.	well will be reinjed ection reverse use	cted into the same of well (from pr	ne aquifer through a second well. roduction to injection) at least one
	6. PROJECT	r schedule	
Indicate the anticipated dates that begun, or is completed, please inc	•	struction tasks shou	uld begin. If construction has already
Proposed date construction will	begin: Septe	mber 1, 2008	
Proposed date construction will	be completed:	February 1, 20	009
Proposed date beneficial water t	ise will begin:	February 15,	2009
	7. R	EMARKS	
lf you would like to clarify any in reference the specific application			oplication, please do so here and
See attached narrative o	of system and site	e maps.	
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			NEVEIV

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8. MAP REQUIREMENTS

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.

9. SIGNATURE

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water right holders to get water to which they are entitled.

I swear that all information provided in this application is true and correct to the best of my knowledge:

Signature of Applicant (If more than one applicant, all must sign.)

Date

Before you submit your application be sure you have:

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this application. You may supply a copy of the deed, land sales contract, or title insurance policy, to meet this requirement.
- Included a check payable to the Oregon Water Resources Department for the appropriate amount. The Department's fee schedule can be found at www.wrd.state.or.us or call (503) 986-0900.

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WRD on the web: www.wrd.state.or.us

WATER RESOURCES DEPT SALEM, CREGON

Applicant Name: _ MCKMstn c	y Co LLC, by ROGE	a N. Smith Assoc Inc.
Mailing Address: 12021 N	E Airport Way, Suita	G
City: _ Portunuo		lay Phone: _ 50 3-241-5444
This application is related to a Measu	ure 37 claim. TYes 🐪 No	

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), or used. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	V4 V4	Tax Lot#	(Designation Residentia		Water to be:	 Prop Land	osed Use:
14	3E	19	N6, 54	311 314 315	IG2	e Colume Puan	Dowict	 XConveyed ★Conveyed	 .¥±w	Bldg
141	32		NW,5W	21/	"		ll Lr	 ★ Conveyed	 11	U 11

List all counties and cities where water is proposed to be diverted, conveyed, or used.

-City of Portrand, Multhomath County

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

➤ Permit to Use or Store Water ☐ Allocation of Conserved Water ☐ Permit Amendment or Ground W	□ Water-Right □ □ Limited Wate Water Registration Mod	r Use License	□ Exchange of Water	
Source of water: Reservoir/Pond	Ground Water	☐ Surface Water	r (name)	-
Estimated quantity of water needed:	0.56 Koubic	feet per second	🗆 gallons per minute	□ acre-feet
•			☐ Domestic for ☐ Other	household(s)
Briefly describe: Two WATER WE TO MCKIN Style (W-I and W-2 Rights. WATER AQUITE AND RE Note to applicant: If the Land Use Information	l Will Biz Drai zin Tecked as	WN FROM A'NON-COI	THE UNUSER	of the water

Receipt for Request for Land Use Information

representative sign the receipt below and include it with the application filed with the Water Resources Department

ATTACHED DOCUMENTS FOR TURTHER DESAILS OF SWITCH



Water Resources Department

North Mall Office Building 725 Summer Street NE, Suite A Salem, OR 97301-1260 503-986-0900 EAX 503-986-0904

NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdictions where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan.

Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan.

Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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Please	check th	ie appropriate box	below and	provide the	requested	information

Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):

Land uses to be served by proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) If approvals have been obtained but all appeal periods have not ended, check "Being pursued".

Type of Land-Use Approval Needed (e.g. plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant. Applicable Plan Policies & Ordinance Section References	Land	l-Use Approval:
		Obtained	Being pursued
		Denied	Not being pursued
		Obtained	Being pursued
		_ Denied	. Not being pursued
		Obtained	Being pursued
		1 Denied	Not being pursued
		Obtained	I Being pursued
		_ Denied	Not being pursued
		_ Obtained	Being pursued
		Denied	1 Not being pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

- Whetholing and theight movements uses allowed by right in the IGA zone and in the Countries such Show Plan District (PCC-33.140, 33.515). Development on site approved in permits 07-168042-CO, 07-179332. CO, 06-153178-CO, 06-166621-CO, 00-166972-CO. Located within the City's wellhead protection was. Signed to the requirements of the City. Water Burear. No new disturbance was no represent changes to land or structures was revised or approved with this LUKS. Located ortside environmental overlag zones.

Name: Jasan Richling Signature: Supplied Government Entity: City of Portland, OR	_ Title: Cib, Planne- Phone: 503-633-0632 Date: 1/26/cx
----------------------------------------------------------------------------------	------------------------------------------------------------

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water RECENED local comprehensive plans.

FEB 2.6 2009

Receipt for Request for Land Use Information

WATER RESOURCES DEPT SALEM, OREGON

A 1'			
Applicant name:			

Low Temperature Geothermal System

<u>Description of Project Located at:</u>

McKinstry Co. Oregon HQ Building,

16790 NE Mason Street, Portland, OR 97230

Township, Range and Section Location: T1N, R3E, 19cdb

The following narrative describes a low temperature geothermal (LTG) system proposed for the heating and cooling of the new Oregon headquarter building of McKinstry Co. located at 16790 NE Mason Street. Portland (see Figure 1). A IG2s zoning (General Industrial) covers this area near the intersection of NE Airport Way and NE Mason St.

The proposed LTG system will draw groundwater from one of two production wells to be located in the northwest and northeast portions of the project property (see Figure 1 and 2). Water withdrawn from a production well will be circulated through a heat exchanger in the new buildings then re-injected into the same aquifer located in the northcast part of the property. Because all water drawn from the aquifer through the production well is returned to the same aquifer, the system is considered a non-consumptive use of the groundwater.

There will be a seasonal reversal of the production and injection wells. Water will be pulled from one well and injected into the second well in the fall and winter, and then the flow will be reversed in the summer. Both wells (W-1 and W-2 in the site figures) will have a water right through the Oregon Department of Water Resources. Both wells have already been granted an underground injection control permit from the Oregon DEQ for the re-injection of water. The City of Portland Water Bureau has been contacted regarding this system because of the nearby City production wells (Randy Albright, hydrogeologist with the Water Bureau 503-823-3421). A requirement of the City was that the wells needed to be outside the 2-year travel time the City production wells. This was established by plotting the project property on a map supplied by the City (see Figure 3).

The LTG system will withdraw a maximum of 250 gpm (gallons per minute) or 0,557 cfs (cubic feet per second) from the aquifer. A stainless steel plate in the building heating exchanger will separate groundwater from building circulation fluids. Preventing any building circulation fluids from interacting with the groundwater. The entire groundwater piping system will be pressurized to prevent the introduction of oxygen, microbes or changes in water chemistry during circulation.

A 20 hp 220-V. 3-phase variable speed submersible pump will be used to pump groundwater. The flow rate pumped from the production well will vary with heating/cooling demand from the building. Estimated typical flow will be approximately 150 gpm with the maximum 250 gpm occurring only during weather extremes.

The following narrative describes the hydrogeology in the McKinstry project area: Local hydrogeology is fairly well understood because of the drilling, hydrogeologic mapping, aquifer testing and modeling done by the City of Portland before and since the

G-17182



Oregon Water Resources Department

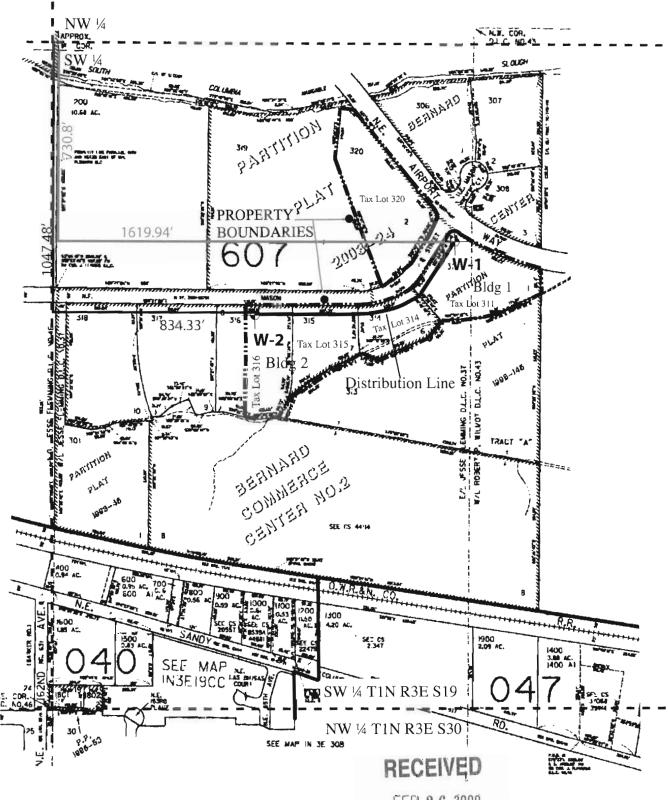
FORM Q

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FOR COMMERCIAL AND INDUSTRIAL WATER USES

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1. Describe the goods and services you plan to provide: Heating and cooling of two office buildings. Circulations in two wells will be periodically reversed to recapture heat and equalize aguifer temperature. 2. How will the water be used? Heating and cooling of office building, non-consumptive use of groundwater. 3. What is the maximum amount of water that will be used on any given day: 300 ☐ cfs 🔀 gpm 4. Are there periods of the day, week, month, or year that the water will not be used? (e.g. no use December-March) ☑ No ☐ Yes If so, when? 5. Is there a particular time or period of day, week, month, or year when the use of water is absolutely essential for the project to continue? (e.g. vegetable processing, Oct. 15-Nov. 15) ☐ No ☑ Yes If so, when? All times when heating or cooling is required. Evenings and weekends may have reduced demand. 6. Are there periods of the day week, month, or year where the amount of water used will be less than at peak times? ☐ No ☐ Yes If so, when? ___ Evening/night and during mild weather



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WATER RESOURCES DEPT SALEM, OREGON

ROGER N. SMITH ASSOCIATES, INC. Groundwater and Environmental Consultants

Project Manager
Roger N. Smith
Drawn By
Steven Dopp
Froject Number
07-856.2
Date Last Modified
January 15, 2009

McKinstry HQ Low Temperature Geothermal Well Locations Relative to Quarter Corner



Map adapted from Multnomah Co. Tax Map Approximate Scale: 1 inch = 400 feet

Figure 2

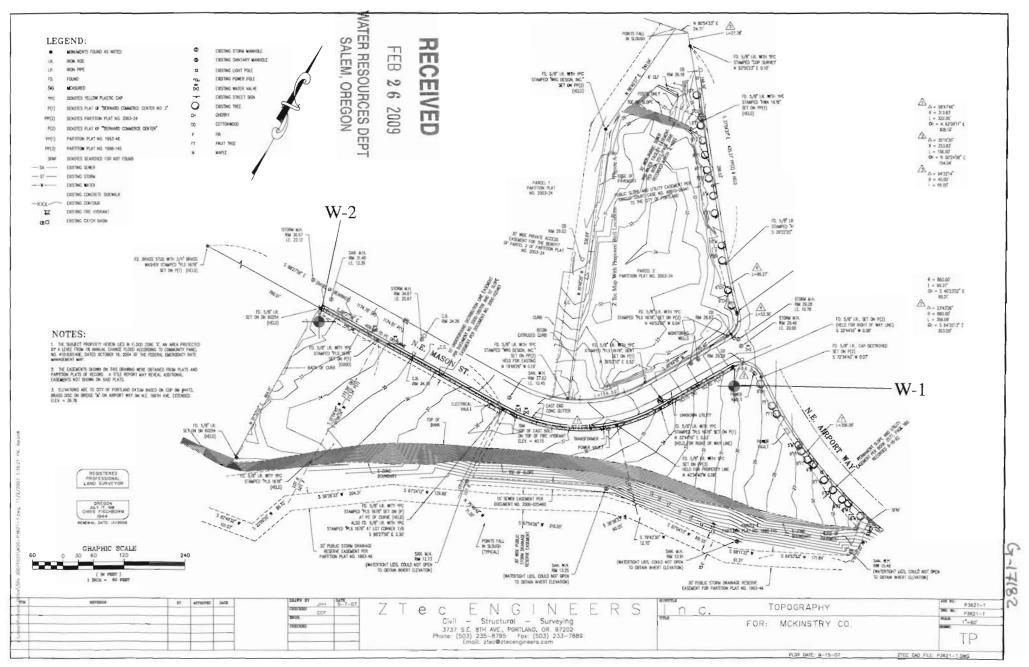


Figure 3



ROGER N. SMITH ASSOCIATE 5, its Groundwater and Engineering Conn.

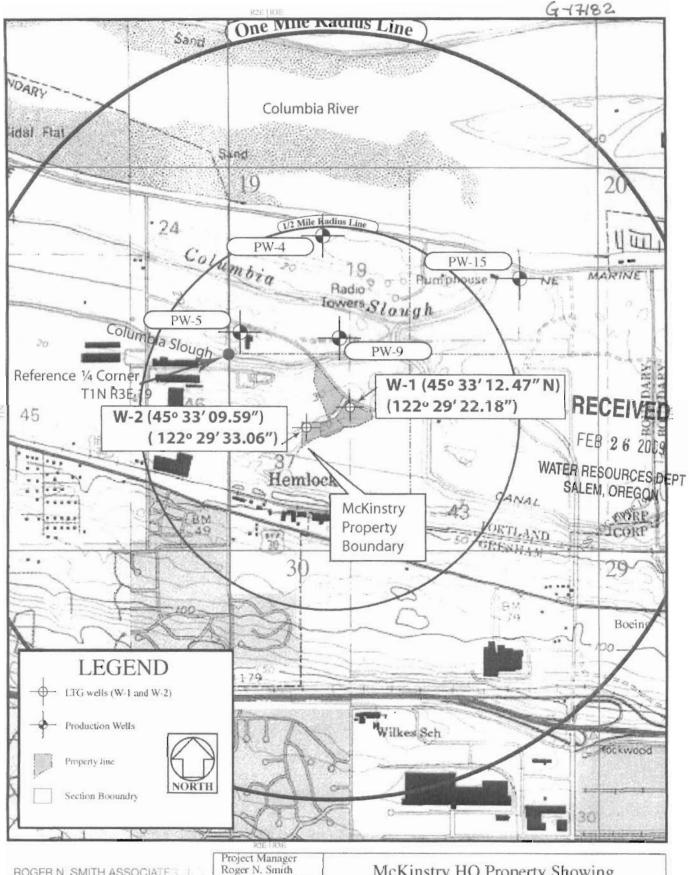
Project Manager Roger N. Smith	McKinstry HQ Low Temperature
Drawn By Steven Dopp	Geothermal Well Locations
Project Number 07-856.2	Relative to Quarter Corner
T . I	

NORTH

Date Last Modified
January 15, 2008

Map adapted from Multanmah Cs, Tax Map
Approximate Scale: 1 inch = 400 feet

Figure 2



ROGER N. SMITH ASSOCIATES, 1 Groundwater and Environmental Gails Project Manager Roger N. Smith Drawn By Steven Dopp Project Number 07-856 Date Last Modified January 15, 2009

McKinstry HQ Property Showing LTG Wells and Nearby Production Wells

Map adapted from TOPO!® ©2006 National Geographic Map Approximate Scale: 1: 15,840 (4" = 1 mile)

Figure 1

development of the Columbia South Shore Well field (CSSWF), which occupies the surrounding area. Two monitoring wells (TG-5 and TS-1) were installed by the City of Portland in Mason Street near the project. Logs from these wells have been used to describe the geology expected beneath the project site. Three geologic units relevant to the McKinstry LTG project are: 1.) the Overbank Deposits, 2.) the Troutdale Gravels and 3.) the underlying Troutdale silts and siltstones. The Overbank Deposits are near-surface silts and sands originating from floods of the modern (since the end of the Pleistocene Era) Columbia River. This unit is approximately 10 feet thick at the property (see Figure 4). Below the Overbank Deposit is a unit of unconsolidated and semi-consolidated siltysandy-cobbly gravel called the Troutdale Gravels. This unit is approximately 100 feet thick in the project area. An unconsolidated upper sub-unit of these gravels is approximately 70 feet thick underlain by a consolidated to semi-consolidated subunit that is 30 to 40 feet thick. Beneath the Troutdale Gravel unit is a thick (approximately 134) feet) sequence of predominantly silts and siltstones. The top of this confining unit at 114 fect below ground surface forms the bottom of the Troutdale Gravel and isolates these gravels from underlying aquifers.

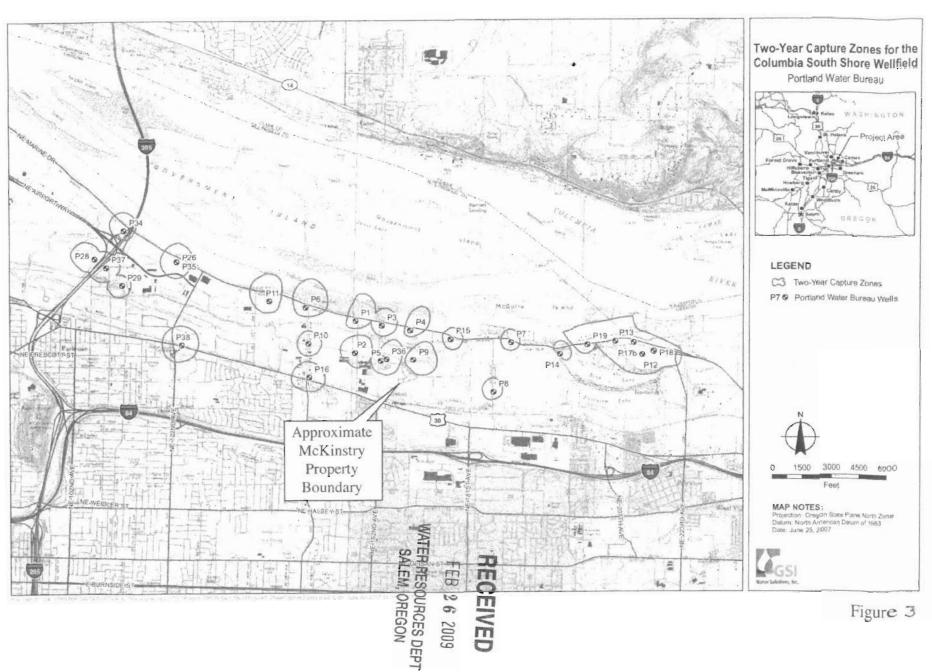
All nearby City production wells are isolated from the shallow aquifer by two confining units and another aquifer. No interference of the new LTG system is expected. The Oregon Department of Water Resources will confirm this before water rights are issued on these new wells.

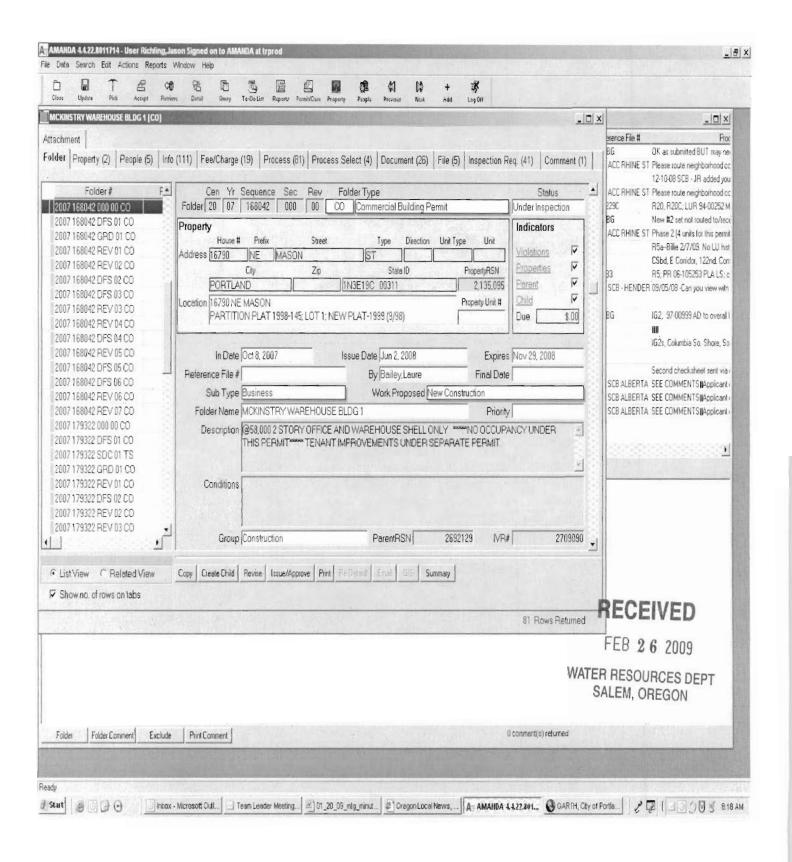
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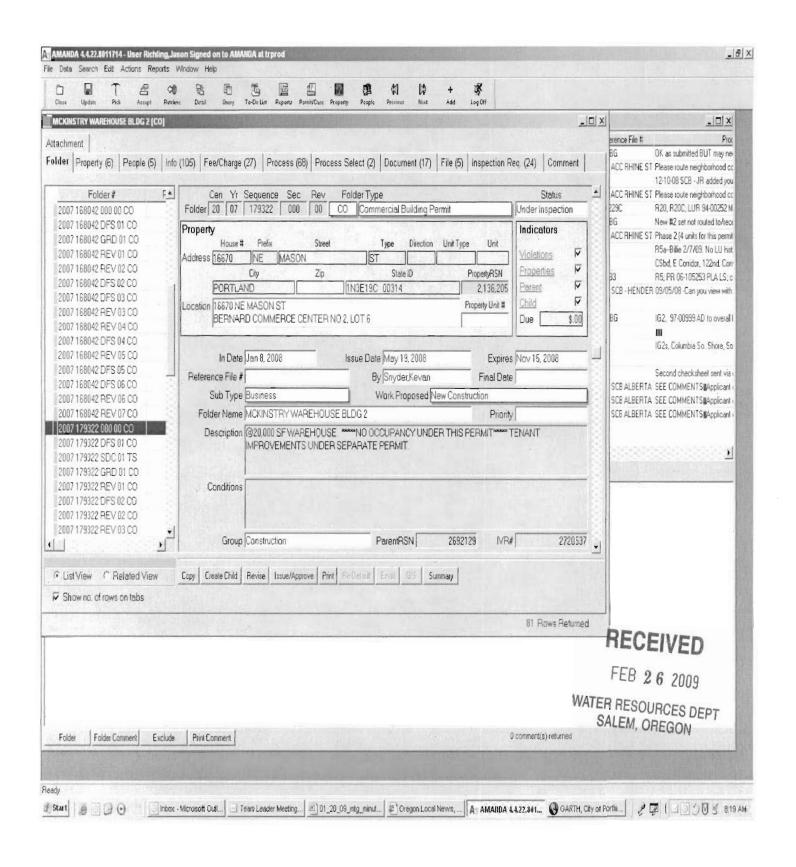
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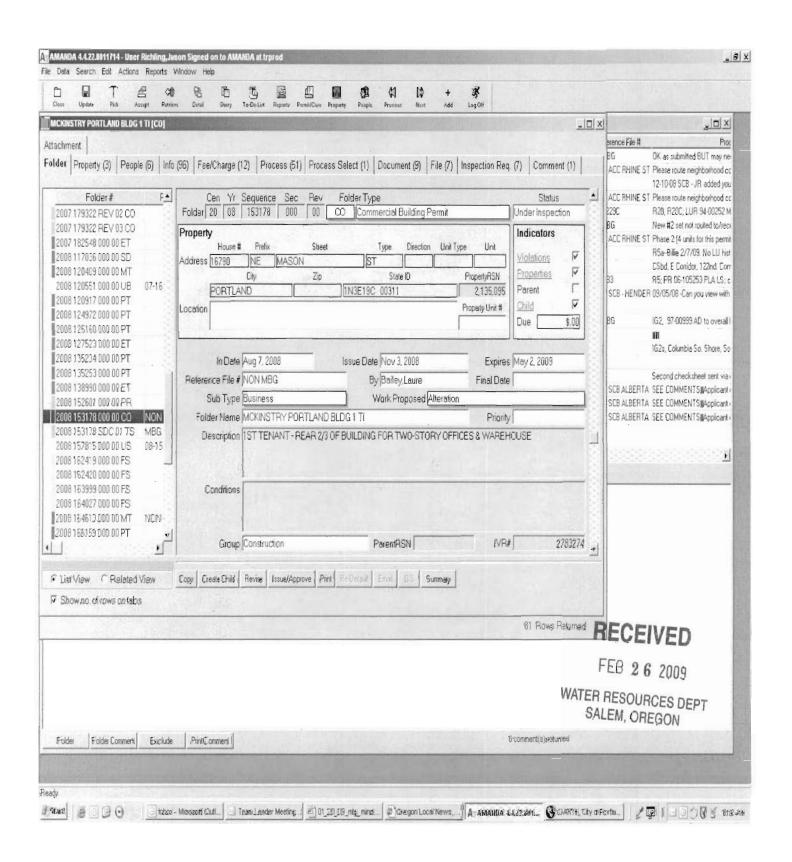
WATER RESOURCES DEPT SALEM, OREGON

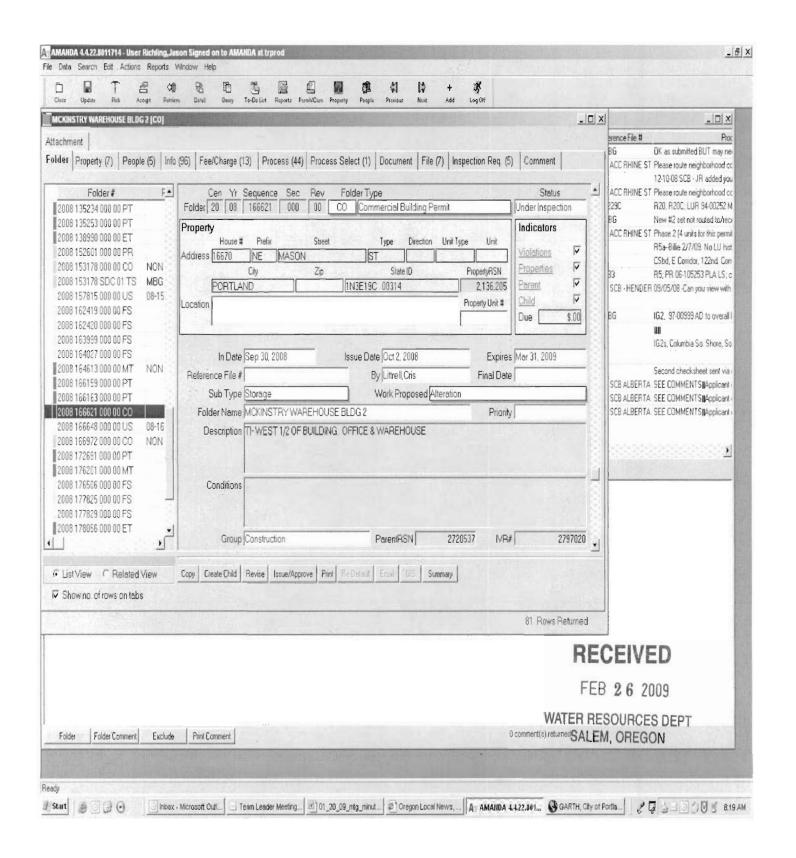


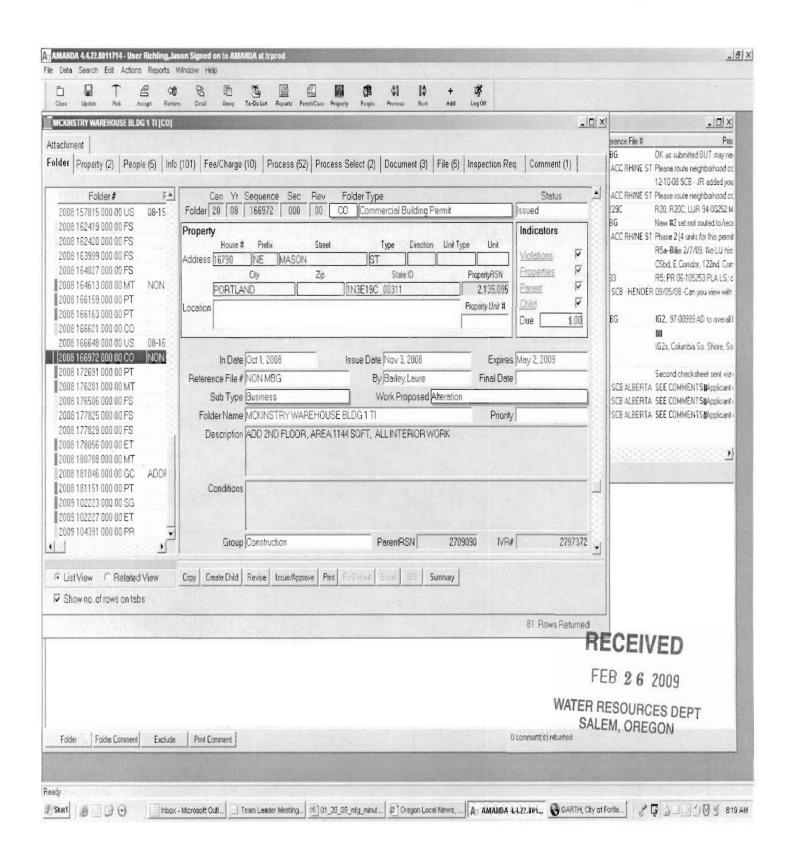














STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

<i>V</i>		
WELL LABEL # L	91673	
START CARD #	1004851	

(1) LAND OWNER Owner Well I.D. I	WAY OCCUPANT OF WHAT I I I I I I I I I I I I I I I I I I I
***	(9) LOCATION OF WELL (legal description)
First Name Last Name	County MULTNON Twp 1 N N/S Range 3 E E/W WN
Company MCKINSTRY CO LLC	Sec 19 NE 1/4 of the SW 1/4 Tax Lot 00316
Address PO BOX 24567 City SEATTLE State WA Zip 98124	Tax Map Number Lot Lat ° 0 ' "or DMS or DD
(2) TYPE OF WORK New Well Deepening Conversion	
Alteration (repair/recondition) Abandonment	Street address of well Nearest address
(3) DRILL METHOD	16790 NE MASON ST PORTLAND, OR 97230
Rotary Air Rotary Mud Cable Auger Cable Mud	
Reverse Rotary Other	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)
	Date SWL(psi) + SWL(ft) Existing Well / Predeepening
(4) PROPOSED USE Domestic Irrigation Community	Completed Well 10-1-08 - 18
Industrial/Commercial Livestock Dewatering	Flowing Artesian? Dry Hole?
Thermal Injection Other	WATER BEARING ZONES Depth water was first found 75
(5) BORE HOLE CONSTRUCTION Special Standard X Attach copy	The second secon
Depth of Completed Well 113 ft	SWL Date From To Est Flow SWL(psi) + SWL(ft)
BORE HOLE SEAL sacks/	
Dia From To Material From To Amt lbs	
16 0 113 Bentonite Chips 0 40 85 S	
	(11) WELL LOG Ground Elevation
	Ground Elevation
How was seal placed: Method A B C D	Material From To
Other	Boulders sandy gravel. 0 25 Coarse sand, gravel, w/large cobbles. 25 45
Backfill placed from 0 ft. to UO ft. Material Payibutte CHIF	Gray-green silty sand, gravels, w/cobbles 45 75
Filter pack from 40 ft. to 108 ft. Material SIUCA Size 10-20	Light brown silty sand, gravels, w/cobbles, water 75 \$3
Explasives used: Yes Type Amount	bearing.
(6) CASING/LINER	Light brown silty sand, gravels, water bearing. 83 87
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	Light brown silty sand, gravels, water bearing with 87 108
() (a) 12 [X] 2 73 365 (b) (c) [X]	cobbles.
12 108 113 365	Green sandstone 108 111
	Green silt, dense 111 1(3
	RECEIVED REACTIVED
	RECEIVED
Shoe Inside Outside Other Location of shoe(s)	DEC 1.5 2008
Temp casing Yes Dia From To	DEC 1 9 2000
(7) PERFORATIONS/SCREENS	1027
Perforations Method	WATER RESOURCES DEF
Screens Type Wife Wrap Material Stainwess	SALEW MILOUN
	SALEM, OREGON
Perf/S Casing/Screen Scrn/slot Slot #of Tele/ creen Liner Dia From To width length slots pipe size	Date Started 09-10-2008 Completed 10-01-2008
12 73 108 .03 2.5.	(unbonded) Water Well Constructor Certification
	I certify that the work I performed on the construction, deepening, alteration, o
	abandonment of this well is in compliance with Oregon water supply well
	construction standards. Materials used and information reported above are true to
(a) 1 (4) (5) (4) (5) (4) (4)	the best of my knowledge and belief.
(8) WELL TESTS: Minimum testing time is 1 hour	License Number Date
● Pump ☐ Bailer ☐ Air ☐ Flowing Artesian	Password (if filing electronically)
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr.)	Signed
75 2 70 66	(bonded) Water Well Constructor Certification
	f accept responsibility for the construction, deepening, alteration, or abandonme
	work performed on this well during the construction dates reported above. All wo
Temperature 52 °F Lab analysis Yes By	performed during this time is in compliance with Oregon water supply we
Water quality concerns? Yes (describe Salaw) EVED	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number 10067 Date
FFR 2.6 1009	Password: (if fitting electronically)
1.0.717.007	Signed Si
WATER DECOMPRECATED	Contact Info (optional)
WATER BESOURCES DEPARTMENTS DEPARTMENT OF SHEEM, TORROUNCES DEPARTMENTS	

MULT 97680

WATER SUPPLY WELL REPORT - continuation page

WELL I.D. # L	91673
START CARD	# 1004851

BORE HOLE CO	ONSTRUCTION	SEAL	sacks/	(10) STATIC	WATER LEVEL		
Dia From To 16 0 113	Material Bentonite Chips	From To 0 40	Amt Ihs	SWL Date	From To	Est Flow SWL(psi)	+ SWL(ft)
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FILTER PACK						-	
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) CASING/LINER				(22)	Material	From	To
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rf/S Casing/ Screen	Scn	Vslot Slot # o		S/	ALEM, OREGON	SALEM, O	REGON
en Liner Dia		dth length slot	pipe size				
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100				S	ALEM, OREGON		
) WELL TESTS: 1	Minimum testing t	ime is 1 hour					
	down Drill stem/Pr		on (hr)				
				Comments/	Kemarks		
Water Quality Con	cerns						
From To	Description	Amount	Units				



September 8, 2008

ERIC G HANSEN #10067 TACOMA PUMP & DRILLING CO INC 30316 MOUNTAIN HWY GRAHAM, WA 98338 Water Resources Department

North Mall Office Building 725 Summer Street NE, Suite A Salem, OR 97301-1266 503-986-0900 FAX 503-986-0904

EP - 2003

FINAL ORDER

Dear Mr. Hansen:

The Special Standard request you submitted for owner: McKinstry Co. LLC, Start Card numbers 1004850 and 1004851 (Wells MKP1 and MKP2), is hereby approved for the following: You may drill these wells within 50 feet from a closed sewer line in the parking lot of this property. The wells shall be continuously cased and continuously sealed to a minimum depth of 40 feet bgs. The annular seals shall be deeper if required by Statute and Rule. These wells may not have split seals (See OAR 690-210-0030). All other construction requirements must be adhered to. Your Special Standard request form is enclosed. This Special Standard is in regards to the minimum well construction standards. Permits may be required from the Water Resources Department, or other agencies, to use these wells.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, please contact me at (503) 986-0851, or by e-mail at Kristopher.R.Byrd@wrd.state.or.us.

Sincerely,

Kristopher Byrd

Well Construction Program Coordinator
Well Construction and Compliance Section

enclosure

CC:

Joel Jeffery, NW Region Well Inspector

File

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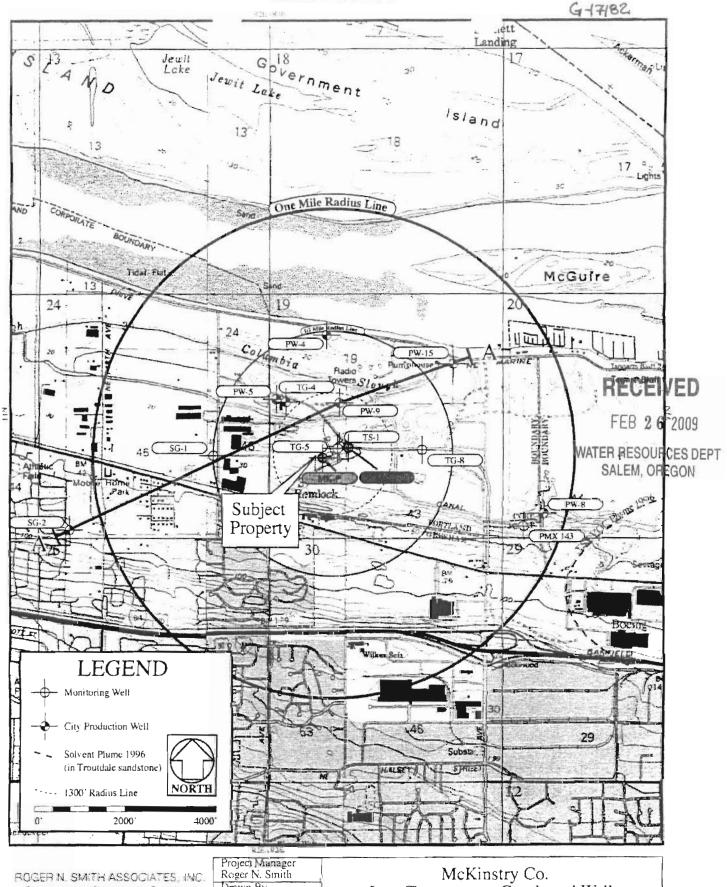
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DEC 15 2008

WATER RESOURCES DEPT SALEM, OREGON

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

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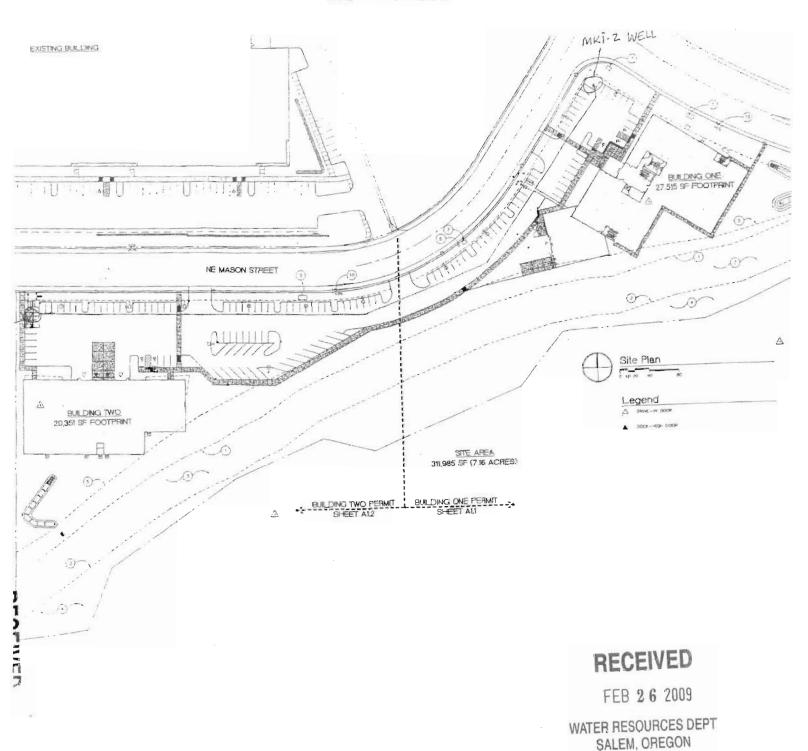


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DEC 15 2008

Project Manager Roger N. Smith Drawn By Steven Dopp Project Number 07-856.2	McKinstry Co. Low Temperature Geotherml and nearby wells	Wells
Date Last Modified May 22, 2008	Map adapted from YORO® € 2006 National Geographic Map Approximate 5cale: 1:24 000	Figure 1

MULT 97680



THIS INSTRUMENT PREPARED BY: Columbia State Bank 1102 Broadway Plaza MS 6100 Tacoma, WA 98402

AFTER RECORDING RETURN TO: Columbia State Bank, Loan Operations 1102 Broadway Plaza, MS 6100 Tacoma, WA 98402 FEB 2 6 2009
WATER RESOURCES DEPT

(Space Above This Line For Recording Data)

LOAN NUMBER: C-07-03-001363

COMMERCIAL REAL ESTATE DEED OF TRUST

This COMMERCIAL REAL ESTATE DEED OF TRUST ("Security Instrument") is made on May 8, 2007 by McKinstry Portland, LLC, a Washington Limited Liability Company, whose address is 5005 3rd Avenue South, Seattle, Washington 98134 the grantor(s) ("Grantor"). The trustee is Fidelity National Title Company of Oregon whose address is 900 SW Fifth Avenue, Portland, Oregon 97204, ("Trustee"). The beneficiary is Columbia State Bank whose address is 721 2nd Avenue, Seattle, Washington 98104 ("Lender"), which is organized and existing under the laws of the state of Washington. Grantor in consideration of loans extended by Lender up to a maximum principal amount of One Million Five Hundred Forty-five Thousand and 00/100 Dollars (\$1,545,000.00) ("Maximum Principal Amount"), and for other valuable consideration, the receipt of which is acknowledged, irrevocably grants, conveys and assigns to Trustee, in trust, with power of sale, the following described property located in the County of Multnomah, State of Oregon:

Address: SW of Airport Way and NE Mason Street, Portland, Oregon 97230 Legal Description: Parcel ID: R525662, R525665, R240283, R525667

Parcel I: Lots 6 and 7, Bernard Commerce Center No. 2, In the City of Portland, Multnomah County, Oregon.

Parcel II: Parcel 1, Partition Plat No. 1998-145, In the City of Portland, Multnomah County, Oregon.

Parcel III: Part of Lot 8, Bernard Commerce Center No. 2, in the City of Portland, Multnomah County, Oregon, described as follows: Commencing at a brass stud with a 3/4-inch iron brass washer stamped "PLS 1678", marking the Northeast corner of Lot 10 of said "Bernard Commerce Center No. 2", said point being on the South right-of-way line of Northeast Mason Street; thence South 88 degrees 27' 58" East along said South right-of-way line, a distance of 480.00 feet to a point on the Northerly line of said Lot 8, said point being the true point of the beginning of the parcel of land herein described; thence continuing along said South right-of-way line, South 88 degrees 27' 58" East a distance of 146.38 feet to the Northeast corner of said Lot 8; thence South 01 degrees 04' 45" West, along the Easterly line of said Lot 8, a distance of 273.28 feet to a 5/8-inch iron rod with a yellow plastic cap stamped "PLS 1678", marking a point of curve in said Easterly line; thence along a 244.40 foot radius curve, through a central angle of 22 degrees 12' 20", an arc distance of 94.72 feet (the long chord of said curve bears South 12 degrees 05' 55" West, a distance of 94.13 feet) to a point of tangency; thence continuing along said Easterly line, South 22 degrees 09' 20" West, a distance of 88.72 feet to a point in the Southerly line of the tract of land described in that deed recorded as Document No. 2002-144577, Multnomah County deed records; thence along said Southerly line, South 82 degrees 49' 32" West, a distance of 101.07 feet to a point; thence North 01 degrees 32' 02" East, at right angles to said South right-of-way line of said Northeast Mason Street, a distance of 464.11 feet to the true point of beginning.

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Commercial Real Estate Security Instrument - DL4005 Page 1 of 8

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Together with all easements, appurtenances abutting streets and alleys, improvements, buildings, fixtures, tenements, hereditaments, equipment, rents, income, profits and royalties, personal goods of whatever description and all other rights and privileges including all minerals, oil, gas, water (whether groundwater, subterranean or otherwise), water rights (whether riparian, appropriate or otherwise, and whether or not appurtenant to the above-described real property), wells, well permits, ditches, ditch rights, reservoirs, reservoir rights, reservoir sites, storage rights, dams and water stock that may now, or at any time in the future, be located on and/or used in connection with the above-described real property, payment awards, amounts received from eminent domain, amounts received from any and all insurance payments, and timber which may now or later be located, situated, or affixed on and used in connection therewith (hereinafter called the "Property").

RELATED DOCUMENTS. The words "Related Documents" mean all promissory notes, security agreements, prior mortgages, prior deeds of trust, business loan agreements, construction loan agreements, resolutions, guaranties, environmental agreements, subordination agreements, assignments of leases and rents and any other documents or agreements executed in connection with this Security Instrument whether now or hereafter existing. The Related Documents are hereby made a part of this Security Instrument by reference thereto, with the same force and effect as if fully set forth herein.

INDEBTEDNESS. This Security Instrument secures the principal amount shown above as may be evidenced by a promissory note or notes of even, prior or subsequent date hereto, including future advances and every other indebtedness of any and every kind now or hereafter owing from Grantor to Lender, howsoever created or arising, whether primary, secondary or contingent, together with any interest or charges provided in or arising out of such indebtedness, as well as the agreements and covenants of this Security Instrument and all Related Documents (hereinafter all referred to as the "Indebtedness").

FUTURE ADVANCES. To the extent permitted by law, this Security Instrument will secure future advances as if such advances were made on the date of this Security Instrument regardless of the fact that from time to time there may be no balance due under the note and regardless of whether the Lender is obligated to make such future advances.

CROSS COLLATERALIZATION. It is the expressed intent of Grantor to cross collateralize all of its Indebtedness and obligations to the Lender, howsoever arising and whensoever incurred.

WARRANTIES. Grantor, for itself, its heirs, personal representatives, successors, and assigns, represents, warrants, covenants and agrees with Lender, its successors and assigns, as follows:

Performance of Obligations. Grantor promises to perform all terms, conditions, and covenants of this Security Instrument and Related Documents in accordance with the terms contained therein.

Defense and Title to Property. At the time of execution and delivery of this instrument, Grantor is lawfully seised of the estate hereby conveyed and has the exclusive right to mortgage, grant, convey and assign the Property. Grantor covenants that the Property is unencumbered and free of all liens, except for encumbrances of record acceptable to Lender. Further, Grantor covenants that Grantor will warrant and defend generally the title to the Property against any and all claims and demands whatsoever, subject to the easements, restrictions, or other encumbrances of record acceptable to Lender, as may be listed in the schedule of exceptions to coverage in any abstract of title or title insurance policy insuring Lender's interest in the Property.

Condition of Property. The Grantor promises at all times to preserve and to maintain the Property and every part thereof in good repair, working order, and condition and will from time to time, make all needful and proper repairs so that the value of the Property shall not in any way be impaired.

Removal of any Part of the Property. Grantor promises not to remove any part of the Property from its present location, except for replacement, maintenance and relocation in the ordinary course of business.

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Alterations to the Property. Grantor promises to abstain from the commission of any waste on the Property. Further, Grantor shall make no material alterations, additions or improvements of any type whatever to the Property, regardless of whether such alterations, additions or improvements would increase the value of the Property, nor permit anyone to do so except for tenant improvements and completion of items pursuant to approved plans and specifications, without Lender's prior written consent, which consent may be withheld by Lender in its sole discretion. Grantor will comply with all laws and regulations of all public authorities having jurisdiction over the premises relating to the use, occupancy and maintenance thereof and shall upon request promptly submit to Lender evidence of such compliance.

Due on Sale - Lender's Consent. Grantor shall not sell, further encumber or otherwise dispose of, except as herein provided, any or all of its interest in any part of or all of the Property without first obtaining the written consent of Lender. If any encumbrance, lien, transfer or sale or agreement for these is created, Lender may declare immediately due and payable, the entire balance of the Indebtedness.

Insurance. Grantor promises to keep the Property insured against such risks and in such form as may within the sole discretion of Lender be acceptable, causing Lender to be named as loss payee or if requested by Lender, as mortgagee. The insurance company shall be chosen by Grantor subject to Lender's approval, which shall not be unreasonably withheld. All insurance policies must provide that Lender will get a minimum of 10 days notice prior to cancellation. At Lender's discretion, Grantor may be required to produce receipts of paid premiums and renewal policies. If Grantor fails to obtain the required coverage, Lender may do so at Grantor's expense. Grantor hereby directs each and every insurer of the Property to make payment of loss to Lender with the proceeds to be applied, only at Lender's option, to the repair and replacement of the damage or loss or to be applied to the Indebtedness with the surplus, if any, to be paid by Lender to Grantor.

Payment of Taxes and Other Applicable Charges. Grantor promises to pay and to discharge liens, encumbrances, taxes, assessments, lease payments and any other charges relating to the Property when levied or assessed against Grantor or the Property.

Environmental Laws and Hazardous or Toxic Materials. Grantor and every tenant have been, are presently and shall continue to be in strict compliance with any applicable local, state and federal environmental laws and regulations. Further, neither Grantor nor any tenant shall manufacture, store, handle, discharge or dispose of hazardous or toxic materials as may be defined by any state or federal law on the Property, except to the extent the existence of such materials has been presently disclosed in writing to Lender. Grantor will immediately notify Lender in writing of any assertion or claim made by any party as to the possible violation of applicable state and federal environmental laws including the location of any hazardous or toxic materials on or about the Property. Grantor indemnifies and holds Lender harmless from any liability or expense of whatsoever nature incurred directly or indirectly as a result of Grantor's violation of applicable local, state and federal environmental laws and regulations or Grantor's involvement with hazardous or toxic materials.

Financial Information. Grantor agrees to supply Lender such financial and other information concerning its affairs and the status of any of its assets as Lender, from time to time, may reasonably request. Grantor further agrees to permit Lender to verify accounts as well as to inspect, copy and to examine the books, records and files of Grantor.

Lender's Right to Enter. The Lender or Lender's agents shall have the right and access to inspect the Property at all reasonable times in order to attend to Lender's interests and ensure compliance with the terms of this Security Instrument. If the Property, or any part thereof, shall require inspection, repair or maintenance which the Grantor has failed to provide, the Lender, after reasonable notice, may enter upon the Property to effect such obligation; and the cost thereof shall be added to the Indebtedness and paid on the Lender's demand by the Grantor.

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ASSIGNMENT OF LEASES AND RENTS. As additional security for the payment of the Indebtedness and the performance of the covenants contained herein, Grantor hereby assigns and transfers over to Lender all rents, income and profits ("Rents") under any present or future leases, subleases or licenses of the Property, including any guaranties, extensions, amendments or renewals thereof, from the use of the Property. So long as Grantor is not in default, Grantor may receive, collect and enjoy all Rents accruing from the Property, but not more than one month in advance of the due date. Lender may also require Grantor, tenant and any other user of the Property to make payments of Rents directly to Lender. However, by receiving any such payments, Lender is not, and shall not be considered, an agent for any party or entity. Any amounts collected may, at the Lender's sole discretion, be applied to protect the Lender's interest in the Property, including but not limited to the payment of taxes and insurance premiums and to the Indebtedness. At Lender's sole discretion, all leases, subleases and licenses must first be approved by Lender.

CONDEMNATION. Grantor shall give Lender notice of any action taken or threatened to be taken by private or public entities to appropriate the Property or any part thereof, through condemnation, eminent domain or any other action. Further, Lender shall be permitted to participate or intervene in any of the above described proceedings in any manner it shall at its sole discretion determine. Lender is hereby given full power, right and authority to receive and receipt for any and all damages awarded as a result of the full or partial taking or appropriation and in its sole discretion, to apply said awards to the Indebtedness, whether or not then due or otherwise in accordance with applicable law. Unless Lender otherwise agrees in writing, any application of proceeds to the Indebtedness shall not extend or postpone the due date of the payments due under the Indebtedness or change the amount of such payments.

GRANTOR'S ASSURANCES. At any time, upon a request of Lender, Grantor will execute and deliver to the Lender, and if appropriate, cause to be recorded, such further mortgages, assignments, assignments of leases and rents, security agreements, pledges, financing statements, or such other document as Lender may require, in Lender's sole discretion, to effectuate, complete and to perfect as well as to continue to preserve the Indebtedness, or the lien or security interest created by this Security Instrument.

ATTORNEY-IN-FACT. Grantor appoints Lender as attorney-in-fact on behalf of Grantor. If Grantor fails to fulfill any of Grantor's obligations under this Security Instrument or any Related Documents, including those obligations mentioned in the preceding paragraph, Lender as attorney-in-fact may fulfill the obligations without notice to Grantor. This power of attorney shall not be affected by the disability of the Grantor.

EVENTS OF DEFAULT. The following events shall constitute default under this Security Instrument (each an "Event of Default"):

- (a) Failure to make required payments when due under Indebtedness;
- (b) Failure to perform or keep any of the covenants of this Security Instrument or a default under any of the Related Documents;
- (c) The making of any oral or written statement or assertion to the Lender that is false or misleading in any material respect by Grantor or any person obligated on the Indebtedness;
- (d) The death, dissolution, insolvency, bankruptcy or receivership proceeding of Grantor or of any person or entity obligated on the Indebtedness;
- (e) Any assignment by the Grantor for the benefit of the Grantor's creditors;
- (f) A material adverse change occurs in the financial condition, ownership or management of Grantor or any person obligated on the Indebtedness; or
- (g) The Lender deems itself insecure for any reason whatsoever.

REMEDIES ON DEFAULT. Upon the occurrence of an Event of Default, Lender may, without demand or notice, pay any or all taxes, assessments, premiums, and liens required to be paid by Grantor, effect any insurance provided for herein, make such repairs, cause the abstracts of title or title insurance policy and tax histories of the Property to be certified to date, or procure new abstracts of title or title insurance and tax histories in case none

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were furnished to it, and procure title reports covering the Property, including surveys. The amounts paid for any such purposes will be added to the Indebtedness and will bear interest at the rate of interest otherwise accruing on the Indebtedness until paid. In the event of foreclosure, the abstracts of title or title insurance shall become the property of the Lender. All abstracts of title, title insurance, tax histories, surveys, and other documents pertaining to the Indebtedness will remain in Lender's possession until the Indebtedness is paid in full.

IN THE EVENT OF THE SALE OF THIS PROPERTY UNDER THE PROCEDURE FOR FORECLOSURE OF A SECURITY INSTRUMENT BY ADVERTISEMENT, AS PROVIDED BY APPLICABLE LAW, OR IN THE EVENT THE LENDER EXERCISES ITS RIGHTS UNDER THE ASSIGNMENT OF LEASES AND RENTS, THE GRANTOR HEREBY WAIVES ANY RIGHT TO ANY NOTICE OTHER THAN THAT PROVIDED FOR SPECIFICALLY BY STATUTE, OR TO ANY JUDICIAL HEARING PRIOR TO SUCH SALE OR OTHER EXERCISE OF RIGHTS.

Upon the occurrence of an Event of Default, Lender may, without notice unless required by law, and at its option, declare the entire Indebtedness due and payable, as it may elect, regardless of the date or dates of maturity thereof and, if permitted by state law, is authorized and empowered to sell or to cause the Property to be sold at public auction, and to execute and deliver to the purchaser or purchasers at such sale any deeds of conveyance good and sufficient at law, pursuant to the statute in such case made and provided, and out of the proceeds of the sale to retain the sums then due hereunder and all costs and charges of the sale, including attorneys' fees, rendering any surplus to the party or parties entitled to it. The recitals in the trustee's deed shall be prima facie evidence of the truth of the statements made in it. If Lender chooses to invoke the power of sale, Lender or Trustee will provide notice of sale pursuant to applicable law. Any such sale or a sale made pursuant to a judgment or a decree for the foreclosure hereof may, at the option of Lender, be made en masse. The commencement of proceedings to foreclose this Mortgage in any manner authorized by law shall be deemed as exercise of the above option.

Upon the occurrence of an Event of Default, Lender shall immediately be entitled to make application for and obtain the appointment of a receiver for the Property and of the earnings, income, issue and profits of it, with the powers as the court making the appointments confers. Grantor hereby irrevocably consents to such appointment and waives notice of any application therefor.

NO WAIVER. No delay or failure of Lender to exercise any right, remedy, power or privilege hereunder shall affect that right, remedy, power or privilege nor shall any single or partial exercise thereof preclude the exercise of any right, remedy, power or privilege. No Lender delay or failure to demand strict adherence to the terms of this Security Instrument shall be deemed to constitute a course of conduct inconsistent with Lender's right at any time, before or after an event of default, to demand strict adherence to the terms of this Security Instrument and the Related Documents.

SUBSTITUTE TRUSTEE. Lender may from time to time remove Trustee and appoint a successor trustee to any Trustee appointed hereunder. Without conveyance of the Property, the successor trustee shall succeed to all the title, power and duties conferred upon Trustee herein and by applicable law.

JOINT AND SEVERAL LIABILITY. If this Security Instrument should be signed by more than one person, all persons executing this Security Instrument agree that they shall be jointly and severally bound, where permitted by law.

SURVIVAL. The Lender's rights in this Security Instrument will continue in its successors and assigns. This Security Instrument is binding on all heirs, executors, administrators, assigns and successors of the Grantor.

NOTICES AND WAIVER OF NOTICE. Unless otherwise required by applicable law, any notice or demand given by Lender to any party is considered effective when it is deposited in the United States Mail with the appropriate postage, mailed to the address of the party given at the beginning of this Security Instrument unless an alternative address has been provided to Lender in writing. To the extent permitted by law, Grantor waives notice of Lender's acceptance of this Security Instrument, defenses based on suretyship, any defense arising from any election by Lender under the United States Bankruptcy Code, Uniform Commercial Code, as enacted in the state

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where the Lender is located or other applicable law or in equity, demand, notice of acceleration, notice of nonpayment, presentment, protest, notice of dishonor and any other notice.

TO THE EXTENT PERMITTED BY LAW, GRANTOR WAIVES ANY RIGHT TO NOTICE, OTHER THAN THE NOTICE PROVIDED ABOVE, AND WAIVES ANY RIGHT TO ANY HEARING, JUDICIAL OR OTHERWISE, PRIOR TO THE LENDER EXERCISING ITS RIGHTS UNDER THIS SECURITY INSTRUMENT.

WAIVER OF APPRAISEMENT RIGHTS. Grantor waives all appraisement rights relating to the Property to the extent permitted by law.

LENDER'S EXPENSES. Grantor agrees to pay all expenses incurred by Lender in connection with enforcement of its rights under the Indebtedness, this Security Instrument or in the event Lender is made party to any litigation because of the existence of the Indebtedness or this Security Instrument, as well as court costs, collection charges and reasonable attorneys' fees and disbursements.

ASSIGNABILITY. Lender may assign or otherwise transfer this Security Instrument or any of Lender's rights under this Security Instrument without notice to Grantor. Grantor may not assign this Security Instrument or any part of the Security Instrument without the express written consent of Lender.

GOVERNING LAW AND JURISDICTION. This Security Instrument will be governed by the laws of the State of Oregon.

SEVERABILITY. If a court of competent jurisdiction determines any term or provision of this Security Instrument is invalid or prohibited by applicable law, that term or provision will be ineffective to the extent required. Any term or provision that has been determined to be invalid or prohibited will be severed from the rest of the Security Instrument without invalidating the remainder of either the affected provision or this Security Instrument.

WAIVER OF JURY TRIAL. All parties to this Deed of Trust waive any right to trial by jury to the extent allowed by law. This jury trial waiver applies to any claims or disputes related or incidental to the relationship established between the parties to this Deed of Trust.

ORAL AGREEMENTS DISCLAIMER. Oral agreements or oral commitments to loan money, extend credit, or to forbear from enforcing repayment of a debt are not enforceable under Washington law.

By signing this Security Instrument, each Grantor acknowledges that all provisions have been read and understood. Signed and sealed by Grantor (s):

McKinstry Portland, LLC

By: Douglas J Moore Its: Member	Date	By: Dean C Allen Its: General Manager	Date
By: William Teplicky Its: Member	Date		
Witnessed by:			
Name:	Date	Name:	Date
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STATE OF	WASHINGTON)			
COUNTY OF	KING)			
Company, to me person whose na forth and that h contained, by sig Portland, LLC,	e personally known ame is subscribed wi e/she is being author gning the name of the	er on behalf of Me or who having pro- ithin this instrumen orized to do so, en the Limited Liability ang instrument is the	oven to me on the t and who acknow xecuted the forego y Company by hin e voluntary act and	i, LLC, a Washingt basis of satisfactory ledged that he/she h bing instrument for nself/herself as Men deed of the Limited	, personally ton Limited Liability y evidence to be the nolds the position set the purpose therein mber of McKinstry d Liability Company.
My commission	expires:			1372	b
Washington, resi	, in and for the stat ding at	e of ,			
(Official					Seal)

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Commercial Real Estate Security Instrument - DL4007

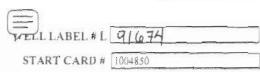
Page 8 of 8

Intials

FEB 2 6 2009

MULT 97681

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537,765 & OAR 690-205-0210)



(1) LAND OWNER Owner Well I.D. 2	(9) LOCATION OF WELL (legal description)
First Name Last Name	County MULTNON Twp 1 N N/S Range 3 E E/W WM
Company MCKINSTRY CO LLC	Sec 19 NE 1/4 of the SW 1/4 Tax Lot 00311
Address PO BOX 24567	Tax Map Number Lot
City SEATTLE State WA Zip 98124	Lat ° 0 ' " or DMS or DD
(2) TYPE OF WORK New Well Deepening Conversion	Long 0 " or DMS or DD
The state of the s	Street address of well Nearest address
Alteration (repair/recondition) Abandonment	
(3) DRILL METHOD	16790 NE MASON ST PORTLAND, OR 97230
Rotary Air Rotary Mud Cable Auger Cable Mud	(10) CT ATIC WATER A FAIR
Reverse Rotary Other	(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)
	Existing Well / Predeepening
(4) PROPOSED USE Domestic Irrigation Community	Completed Well 10.21.08 - 21.5
Industrial/Commericial Livestock Dewatering	Flowing Artesian? Dry Hole?
X Thermal Injection Other	WATER BEARING ZONES Depth water was first found 60
(5) BORE HOLE CONSTRUCTION Special Standard X Attach copy	SWL Date From To Est Flow SWL(psi) + SWL(ft)
Depth of Completed Well 120 ft.	10:24:00 60 114 45GAM - 21.3
BORE HOLE SEAL sacks/	
Dia From To Material From To Amt Ibs	
16 0 120 Bentonite Chips 0 40 100 S	
	(11) WELL LOG Ground Elevation
How was seal placed: Method A B C D E	Ground Elevation
	Material From To Sitty sand, coarse gravel. 0 25
Other	Sandy gravel, trace cobbles, boulders. 25 60
Backfill placed from ft. to ft. Material	Sand, gravel, boulders, water bearing. 60 114
Filter pack from 40 ft. to 120 ft. Material Silica Sand Size 10/20	Green sandstone. 114 115
Explosives used: Yes Type Amount	Black sandstone. 115 120
(6) CASING/LINER	
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd	
12 X 2 79.5 .365 12 115 120 .365 X	
12 115 120 .365	
	RECEIVED
	TIEVELY BECEIVED
	DEC 1 5 2000
Shoe Inside Outside Other Location of shoe(s)	DEC 1 5 2008 IAN 2 6 2009
Temp casing Yes Dia From To	
(7) PERFORATIONS/SCREENS	WATER RESOURCES DEPT WATER RESOURCES DEP
Perforations Method	SALEM OBEGON
Screens Type Wire Wrap Material Stainless	SALEM OREGON
Perf/S Casing Screen Scm/slot Slot # of Tele/	Date Started 10-14-2008 Completed 10-21-2008
creen Liner Dta From To width length slots pipe size	(unbonded) Water Well Constructor Certification
12 79.5 113 03 17.2.	I certify that the work I performed on the construction, deepening, alteration, or
	abandonment of this well is in compliance with Oregon water supply well
	construction standards. Materials used and information reported above are true to
	the best of my knowledge and belief.
(8) WELL TESTS: Minimum testing time is 1 hour	License Number Date
Pump Bailer Air Flowing Artesian	Password : (if filing electronically)
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)	Signed
93 41 75 16	(bonded) Water Well Constructor Certification
	I accept responsibility for the construction, deepening, alteration, or abandonment
	work performed on this well during the construction dates reported above. All work
Temperature 52 °F Lab analysis Yes By	performed during this time is in compliance with Oregon water supply well
Water quality concerns? Yes (describe below RECEIVED)	construction standards. This report is true to the best of my knowledge and belief.
From To Description Amount Units	License Number 10067 Date
	Password: (if tilingfelectronically)
FEB 3 6 2009	Signed
	Contact Info (optional)
WATER REPOWATER RESERVES I	DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE SALEMANDERON DEPARTM	MENT WITHIN 30 DAYS OF COMPLETION OF WORK
	rom version: 4.39

sacks/

Amt lbs

Stl Plstc Wld Thrd

SEAL

To

From

WATER SUPPLY WELL REPORT continuation page

(5) BORE HOLE CONSTRUCTION

Material

Size

To

Gauge

Scm/slot

width

Drill stem/Pump depth

Description

To

Slot

length

of

slots

Duration (hr)

Amount Units

Tele/

pipe sıze

To

BORE HOLE

From

FILTER PACK

(6) CASING/LINER Casing Liner

To

Dia

(7) PERFORATIONS/SCREENS

From

(8) WELL TESTS: Minimum testing time is 1 hour

Drawdown

Water Quality Concerns

Dia

Perf/S Casing/ Screen

creen Lines

Yield gal/min

Material

From

Dia

1681				Q-	17102
	WEL	L [.D, #	LO		
	STAF	RT CAR	D# 10048	50	
(10) STATI	CWATER	LEVE			
	ring Zones	LLIL	L		
SWL Date	From	То	Est Flov	w SWL(psi)	+ SWL(ft)
			-		
					4
(11) WELL	1.00				
(11) WELL	Material			From	Т-
	Material			FIOIII	То
				DECE	VED-
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			WAT	ER RESOU	PCES DEPT
				SALEM. OF	REGON
				7505	WED
DE	CEN/E	-		RECE	HVED
nc.	CEIVE			IAN 2	6 2009
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	SOURCES		W	ATER HESC	URCES DEI OREGON
	M, OREGO			SALEM	UNCOOI
Comments	Damarks			_	
Comments					



September 8, 2008

Water Resources Department North Mall Office Building 725 Summer Street NE, Suite A Salem, OR 97301-1266 503-986-0900 FAX 503-986-0904

ERIC G HANSEN #10067 TACOMA PUMP & DRILLING CO INC 30316 MOUNTAIN HWY GRAHAM, WA 98338

SEP 1 . 2008

FINAL ORDER

Dear Mr. Hansen:

The Special Standard request you submitted for owner: McKinstry Co. LLC, Start Card numbers 1004850 and 1004851 (Wells MKP1 and MKP2), is hereby approved for the following: You may drill these wells within 50 feet from a closed sewer line in the parking lot of this property. The wells shall be continuously cased and continuously sealed to a minimum depth of 40 feet bgs. The annular seals shall be deeper if required by Statute and Rule. These wells may not have split seals (See OAR 690-210-0030). All other construction requirements must be adhered to. Your Special Standard request form is enclosed. This Special Standard is in regards to the minimum well construction standards. Permits may be required from the Water Resources Department, or other agencies, to use these wells.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, please contact me at (503) 986-0851, or by e-mail at Kristopher.R.Byrd@wrd.state.or.us.

Sincerely,

Kristopher Byrd

Well Construction Program Coordinator
Well Construction and Compliance Section

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FEB 2 6 2009

enclosure

CC:

DEC 15 2003

WATER RESOURCES DEPT SALEM, OREGON

Joel Jeffery, NW Region Well Inspector

File

WATER RESOURCES DEP? SALEM, OREGON

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

MULT 97681 G-17182 ett Government Landing S Jewil Lake Jewit Lake MO sland 13 RECEIVE FEB 2.6 200 One Mile Radius Line WD WATER RESOURCES DEPT SALEM, OREGON McGuire 24 19 24 UI Pladio³ Tegars Bluff SG-1 Lemlock Subject Property Bocing LEGEND Monitoring Well City Production Well 29 Substat Solvent Plume 1996 (in Troutdale sandstone) NORTH 1300' Radius Line

ROGER N. SMITH ASSOCIATES, INC. Groundwater and Environmental Controllation

2000

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Project Manager Roger N. Smith Drawn By Steven Dopp Project Number 07-856,2 Date Last Modified May 22, 2008

4000

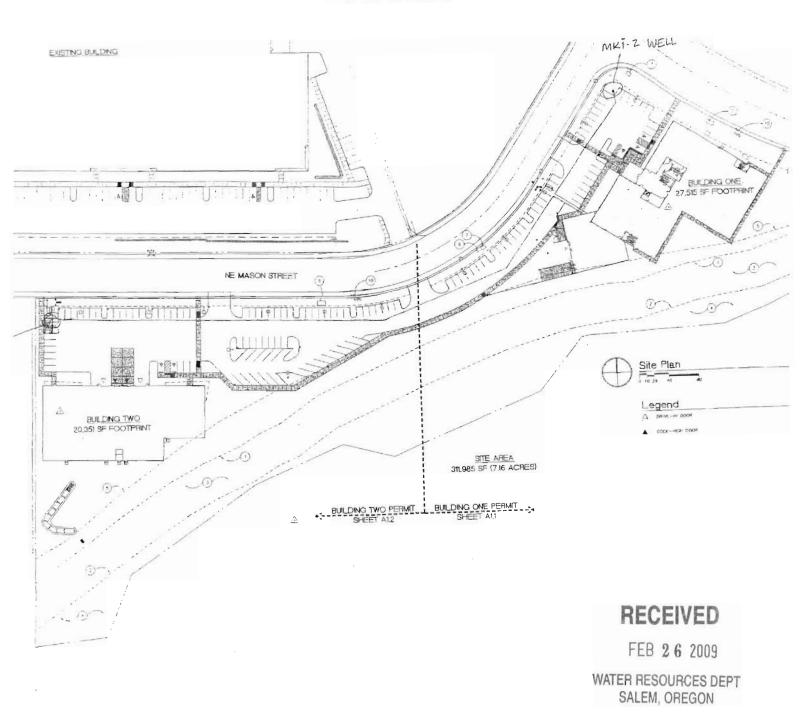
McKinstry Co.
Low Temperature Geotherml Wells
and nearby wells

Map adapted from TOPO'8 < 2006 National Geographic Map Approximate Scale: 1:24 000

Figure 1

DEC 15 2008

MULT 97681



Low Temperature Geothermal System

Description of Project Located at:

McKinstry Co. Oregon HQ Building,

16790 NE Mason Street, Portland, OR 97230

Township, Range and Section Location: T1N, R3E, 19cdb

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FEB 2 6 2009

WATER RESOURCES DEPT SALEM, OREGON

The following narrative describes a low temperature geothermal (LTG) system proposed for the heating and cooling of the new Oregon headquarter building of McKinstry Company LLC located at 16790 NE Mason Street, Portland (see Figure 1). The site is located within the City of Portland's Columbia South Shore Well Field (CSSWF), near the intersection of NE Airport Way and NE Mason Street.

The proposed LTG system will involve two wells (identified as W-1 and W-2); one withdrawing and the other re-injecting groundwater from/to the shallow Troutdale Groundwater Aquifer (TGA). One well will be located near the northwest boundary of the project property, a second well will be located in the southeast corner of the property approximately 800 feet apart (see Figures 1, 2 and 3). Water withdrawn from one of these well will be circulated through a heat exchanger in the new building (identified as Building #1 on Figure 2) then re-injected back into the same aquifer through the second well. A unique feature of this system will be the seasonal reversal of this flow direction during changes of the seasons. This flow reversal will retrieve warm water that had been injected during summer months to be used in winter. Thus, not only will the system be a non-consumptive use of the groundwater but the net thermal input into the aquifer will be low.

The LTG system is anticipated to withdraw water at rates up to 300 gpm (gallons per minute) or 0.668 cfs (cubic feet per second) from the aquifer. However, limited hydraulic conductivity may not allow this high of yield. The re-injection rate will equal the withdrawal rate, no other use of the water is intended. A stainless steel plate in the building heating exchanger will separate groundwater from building circulation fluids preventing any building circulation fluids from interacting with the groundwater.

A 20 hp 440-V, 3-phase variable speed submersible pump will be used to pump groundwater. The flow rate will vary with heating/cooling demand from the building. Estimated typical flow will be 100-150 gpm.

The following narrative describes the hydrogeology in the McKinstry project area:

Local hydrogeology is fairly well understood because of the drilling, hydrogeologic mapping, aquifer testing and modeling done by the City of Portland before and since the CSSWF was completed. Two monitoring wells were installed by the City of Portland in Mason Street near the project. Logs from these wells have been used to describe the geology beneath the project size. Three geologic units relevant to the McKinstry LTG project are: 1.) the Overbank Deposits, 2.) the Troutdale Gravels and 3.) the underlying Troutdale silts and siltstones. The Overbank Deposits are near-surface silts and sands

originating from floods of the modern (since the end of the Pleistocene Era) Columbia River. This unit is approximately 10 feet thick at the property (see attached cross-section, Figure 7). Below the Overbank Deposit is a unit of unconsolidated and semiconsolidated silty-sandy-cobbly gravel called the Troutdale Gravels. This unit is approximately 100 feet thick in the project area (see cross-section). An unconsolidated upper sub-unit of these gravels is approximately 70 feet thick underlain by a consolidated to semi-consolidated subunit that is 30 to 40 feet thick. Beneath the Troutdale Gravel unit is a thick (approximately 134 feet) sequence of predominantly silts and siltstones. The top of this unit. at 114 feet below ground surface, forms the bottom of the Troutdale Gravel and isolates these gravels from underlying aquifers. Diagrams showing these units and sub-units are presented on the well construction diagrams completed following the recent installation of the two LTG well, W-1 and W-2 (see Figures 4 and 5).

The hydrogeology of interest for the McKinstry project is the saturated portions of Troutdale Gravels and the underlying silts and siltstones. The saturated portion of the unconsolidated gravel sub-unit is referred to as the Unconsolidated Gravel Aquifer (UGA). At the project site this aquifer extends from the water table (21 feet below ground surface or bgs) to 80 feet bgs. The semi-consolidated or consolidated portion of the Troutdale Gravels (referred to as the Troutdale Gravel Aquifer or TGA) underlies the UGA and extends from approximately 80 feet bgs to 114 feet bgs where the silts and siltstones (referred to as Confining Unit 1 or CU1). The UGA and the TGA are hydraulically connected and often referred together as the Troutdale Gravel Aquifer. Because of their depositional character (unconsolidated and consolidated) the aquifers may have different groundwater production capabilities. It has been our experience to find higher productivity in the lower semi-consolidated or consolidated TGA sub-unit than in the UGA.

During the drilling of the monitoring wells (TG-5 and TS-1. approximately 100 feet west of W-1) in Mason Street in 1998, production raters were estimated at different depths. These estimates were made by airlifting water out of the drill casing with a fairly short zone of aquifer exposed to the bottom of the casing. Moderately high flow rates of 100-200 gpm were noted near the bottom of the TGA.

The closest City CSSWF production well to the project site is PW-9 (see Figures 1 and 6) located approximately 0.19 miles (1,000 feet) north of the project site. This well draws water from the Troutdale Sand And Gravel Aquifer (SGA). This is an aquifer located two confining units below the TGA. The hydrogeologic cross-section A-A' (see Figure 7) shows the site well W-1, two monitoring wells, and PW-9 and their relationship to the underlying hydrogeologic units. A second City well PW-5 approximate 1,200 feet northwest of the project site also draws water from the SGA. No operating City wells draw water from the shallow TGA to be used by this project circulation wells. Because the TGA is isolated from underlying aquifers and because of the non-consumptive character of the LTG system, it is considered unlikely the new LTG wells will interfer with other production wells in the area.

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FEB 26 2009

RNSA

Natural recharge to the TGA in the project is from precipitation and infiltration at the ground surface in areas to the south and southeast of the project area. Discharge of the Troutdale Gravel Aquifer in this area is considered to be the Willamette River located 1.17 miles (6.200 feet) southwest of the site.

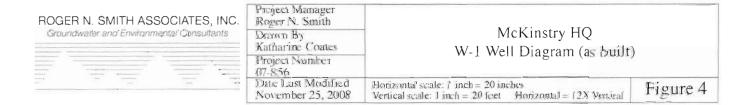
List of Figures

- Figure 1. McKinstry HQ Property Showing LTG Wells and Nearby Production Wells
- Figure 2. McKinstry HQ Low Temperature Geothermal Well Locations Relative to Quarter Corner
- Figure 3. Ztec Engineers Topograpic Map
- Figure 4. McKinstry HQ W-1 Well Diagram (as built)
- Figure 5. McKinstry HQ W-2 Well Diagram (as built)
- Figure 6. McKinstry Proerty 16790 NE Mason Street Showing Hydrogeologic Cross-Section and Nearby City Production Wells
- Figure 7. Hydrogeologic Cross-Section A-A`

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WATER RESOURCES DEPT SALEM, OREGON

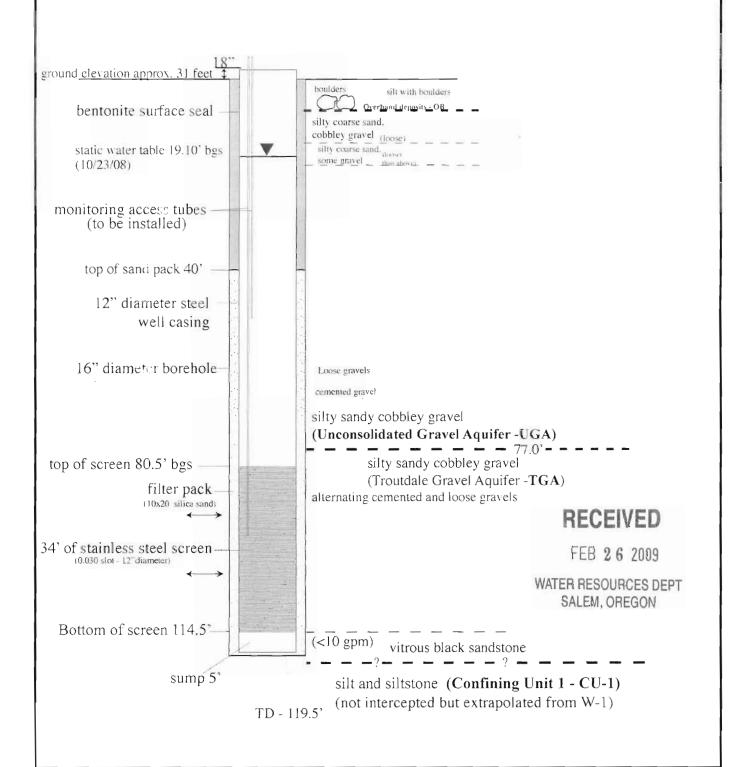


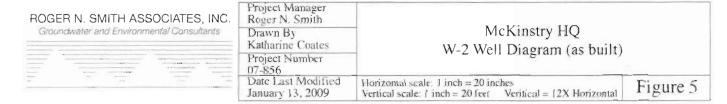
TD - 116'

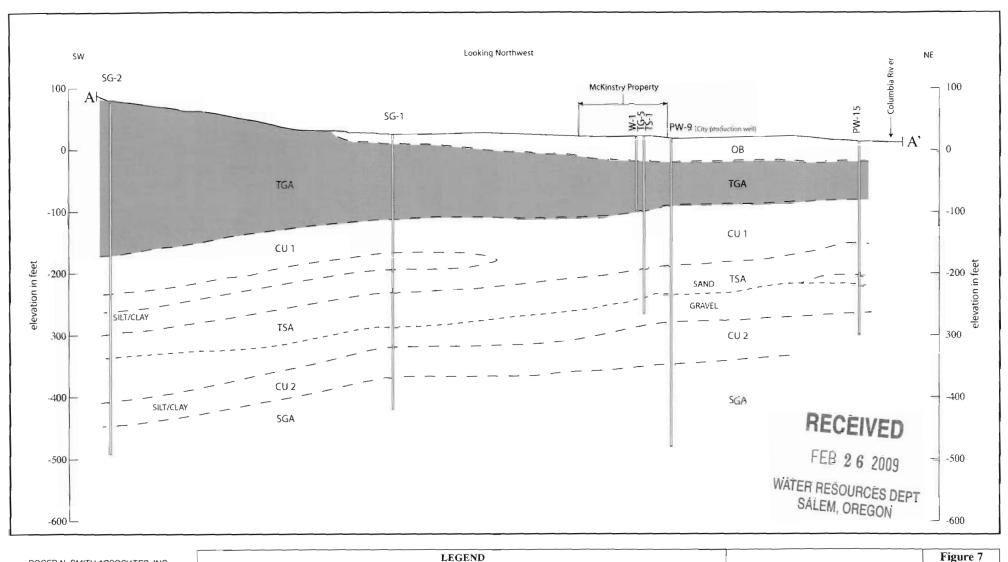
(contact based on nearby wells)

sump (1')

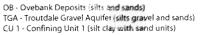
Well W-2





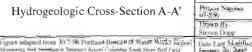






TSA - Troutdale Sand Aquifer (sand and sandsatne - upper unit gravel and conglomerate - lower unit)

CU 2 - Confining Unit 2 (clay and silt) SGA - Troutdale Sand and Gravel Aquifer 759



Project Number 197-250

Drawn By. Steven Dopp